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SEPTEMBER 10, 1949

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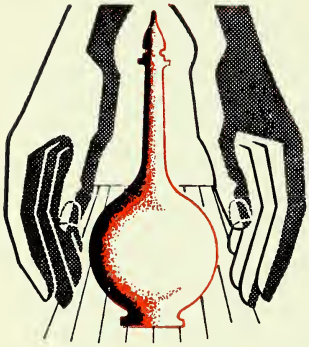

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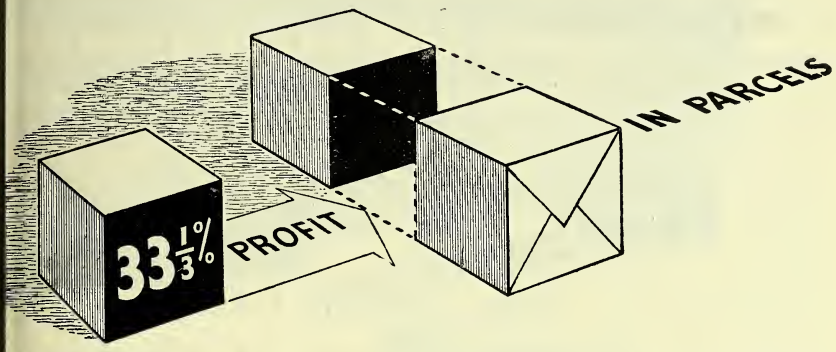

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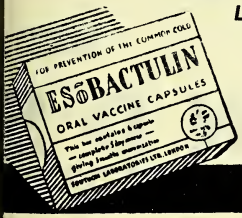

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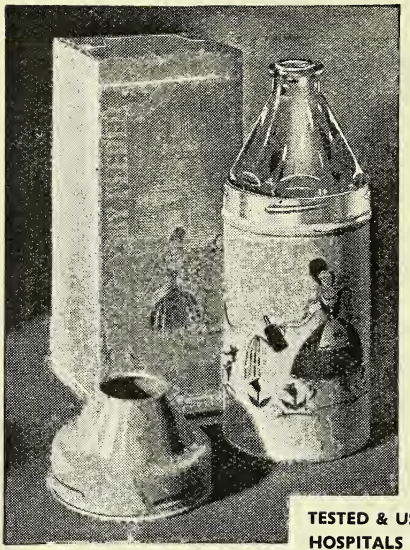

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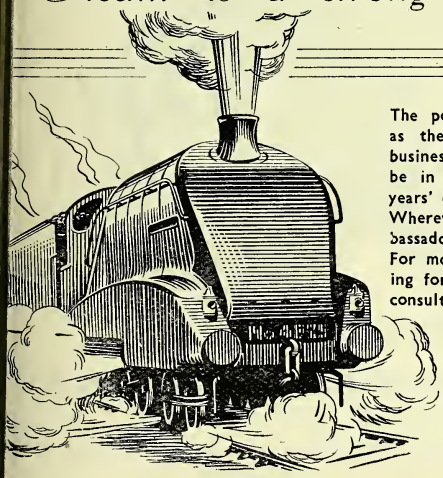

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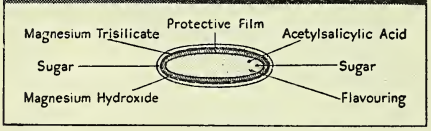

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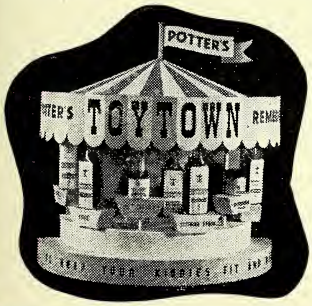

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Wholesale Prices: 1 lb. Jars **18/9**; 2 lb. Jars **35/-**

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NOTE: Also supplied if required with attractive labels bearing your own name, at the same wholesale prices.

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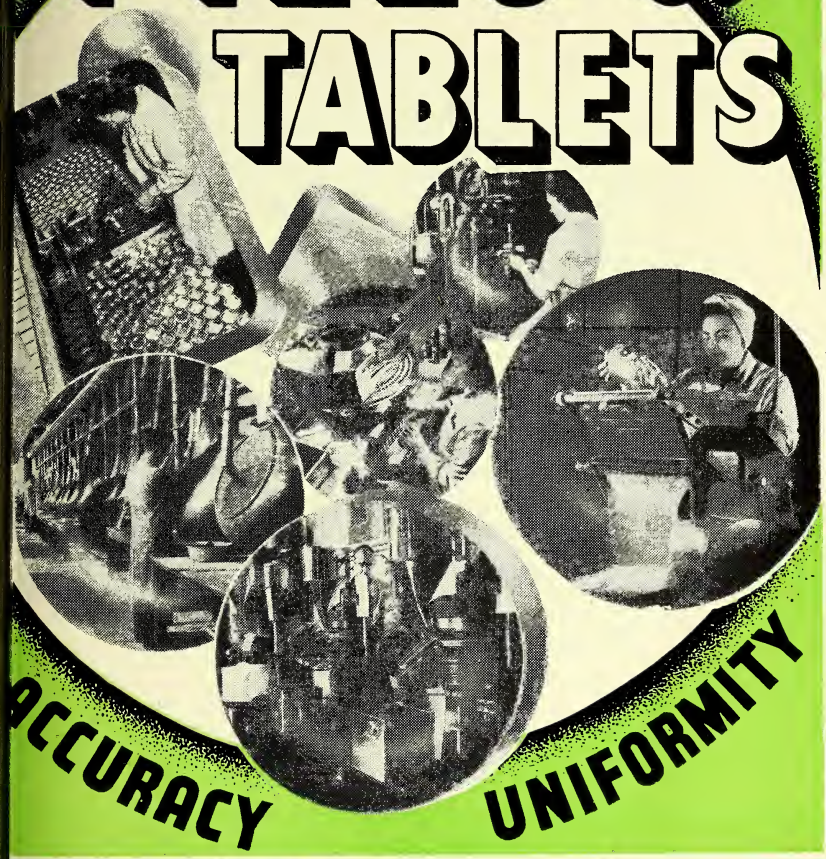

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A Complete Medicine in Pastille For

GEE'S LINCTUS PASTILLE

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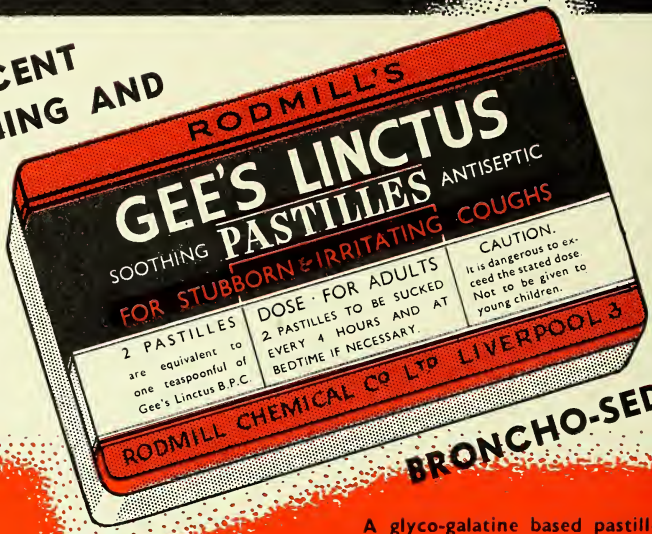

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A glyco-galatine based pastille possessing the full therapeutic value of the celebrated "Gee's Linctus."

2 pastilles are equivalent in therapeutic value to one teaspoonful of Linctus. Invaluable for night coughing and throat irritation: Attractively packed in 2-oz., hinged tins designed in 3 colours.

Retail at 1/6 per tin, including Tax.		
Cost Price	...	9/9 per doz.
6-doz. lots	...	9/6 per doz.
12-doz. lots	...	9/3 per doz.
All plus 3/3 per doz. Purchase Tax.		

FORMULA

Morphine 0.017% w/v, Acid Benzoic B.P. 0.17% w/v, Camphor B.P.C. 0.1% w/v, Ext. Scillæ Liq. B.P.C. 3.4% v/v, Acid Acetic Glacine B.P. 1% v/v, Balsam Tolu 0.8% w/v, Honey B.P. 20% w/w, Sucrose q.s., Excipient q.s.

RODMILL CHEMICAL CO. LTD. LIVERPOOL 3

STAFFORD ALLEN & SONS LTD., Wharf Rd., London, N.1. CLErkenwell 1000

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CITRIC ACID

TARTARIC ACID · CREAM OF TARTAR

ROCHELLE SALTS · CALCIUM GLUCONATE

LITHIUM CHLORIDE · LITHIUM CARBONAT

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CODES ABC 6th, Bentleys Private

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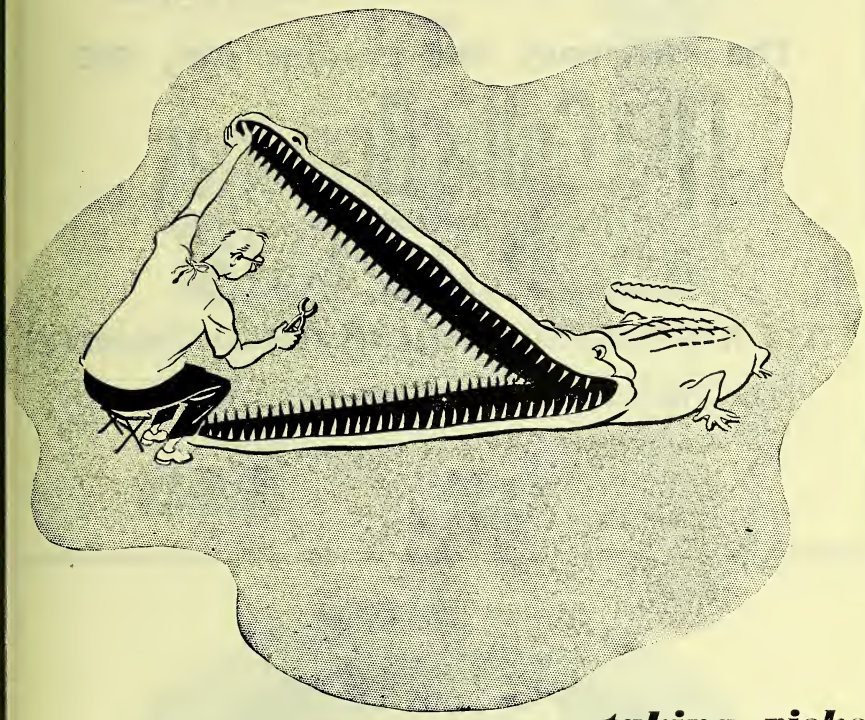

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ANTISEPTIC THROAT LOZENGES

- Newly designed Tin,* enamelled in Cream and Blue and packed in attractive Counter-Display boxes.
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  Parcels of 48 Tins—Discounts of 33⅓% and 5%.
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Send for our "Vademecum of Therapeutics and Products" which contains a price list and much useful information

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the trusted remedy that has stood the test of time

FOR RHEUMATISM

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including purchase tax

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the cream of cream shampoos

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SPECIAL introductory offer for WINDOW DISPLAY, for which striking material is now available: DISCOUNTS of 5% on orders of 3 dozen up to 6 dozen and 10% on orders for 6 dozen or over. RETAIL price: 1/10 per tube, including tax. TRADE: 12/- per dozen, net, plus tax.

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Can be recommended with confidence. Nationally advertised

IN 8 oz. BOTTLES SELLING AT 3/10. 25/- per doz., plus tax

CARRIAGE PAID ON NET ORDER OF £2

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Go hand in hand with 'KOLYNOS' -for bigger, quicker profits

You have the selling help of 'Kolynos' advertising in every leading newspaper and periodical when you display this famous dental cream.

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BRUSHWARE
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LADIES' STYLE
Rubber Cushion Hairbrushes

	Per doz.	Retail Inc. P.T
Model A		
Nylon Tufts	52/-	8/-
Plastic Handles, Rose Pink, Sky Blue and Eau-de-Nil Green		
Model B		
Wire Pins	41/-	6/3
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Wire Pins	36/-	5/6
Nylon Tufts	45/-	6/11
Coloured Wooden Handles Pastel Pink, Pastel Blue, Post Office Red, Eau-de-Nil Green, Rose Wood and selected grained wood handles in natural polish		
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Nylon Tufts	36/-	5/6
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GENTS' MILITARY STYLE
Rubber Cushion brushes

Wire Pins	36/-	5/6
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Selected grained wood backs finished in natural polish		

BABY'S OWN Beauty Brush
Soft Rubber Cushion

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All hairbrushes, are packed individually in attractively designed coloured cartons, with special cellophane window for viewing.

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CARR'S VITAMIN B
PREPARED WHEAT GERM
A RICH SOURCE OF VITAMIN

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ONLY FROM CHEMISTS
3/- per large (14 oz.) packet

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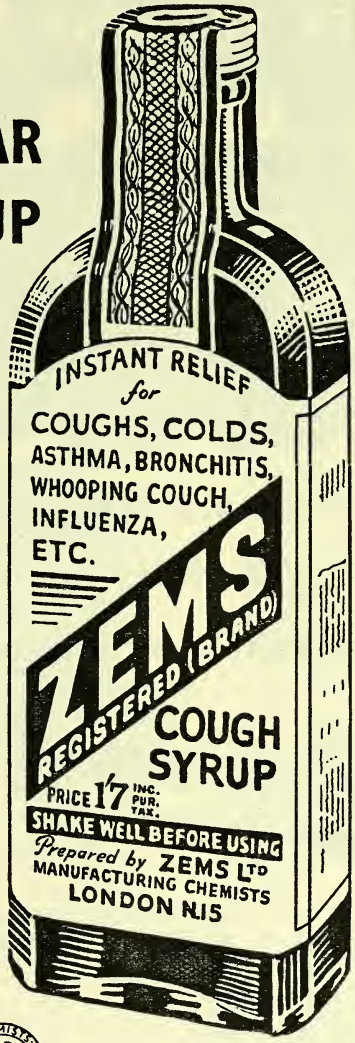
THE POPULAR COUGH SYRUP

Good for the young and good for the old



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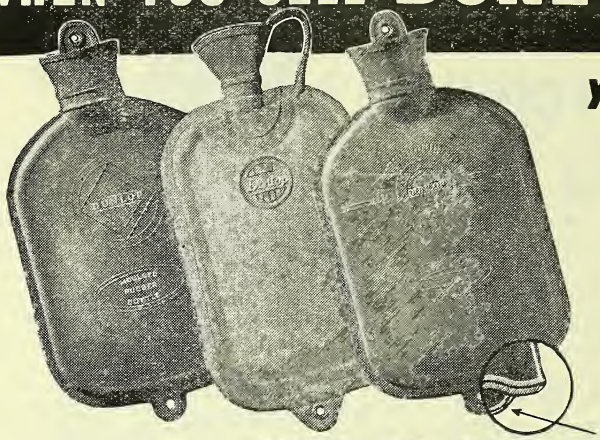

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These three famo Dunlop Hot Water Bot —the Moulded Rubber, the Mould Fabric Insertion and Hand Made Bottle— obtainable from your us wholesaler.

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STOCK UP NOW WITH DUNLOP HOT WATER BOTTLE

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SPIRAL GREEN BAND
TEATS & VALVES
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Ingram's, famous for over a hundred years for their Surgical Rubb Manufactures, take pleasure in announcing the return of one their Agrippa Teat series, the Spiral Green Band Teats and Valv Nationally approved by nursing and clinical authorit and a best seller before the war, they are meticulou made from pure transparent rubber in four shapes, all which are designed to ensure an even, natural flow. T special spiral band holds teats firmly on bottles and w not accidentally pull off. Each teat packed separately a carton. Now being supported by press advertising whi will be increasingly developed.

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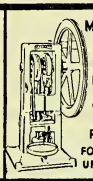
TABLET MAKING MACHINERY

MANESTY F3 TABLET MACHINE

OUTPUT 85 PER MIN.

ABLETS UP TO 3/4" DIAM.



MANESTY HAND TABLET MACHINE

OUTPUT 100 PER MIN.

FOR TABLETS UP TO 1/2" DIAM.

MANESTY E2 TABLET MACHINE

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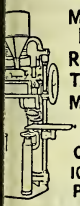
FOR TABLETS UP TO 1/2" DIAM.

MANESTY HAND COMPACT PRESS

OUTPUT 2000 COMPACTS PER DAY

MANESTY CP2 COATING PAN

STANDARD SIZE 30" DIAM.

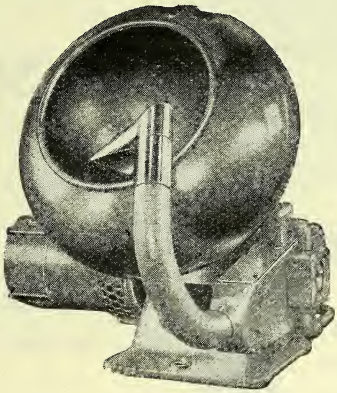


MANESTY B.B.3 ROTARY TABLET MACHINE

OUTPUT 1000-1500 PER MIN.

ABLETS UP TO 1/2" DIAM.

ONE OF THE MANESTY NEW MODELS!

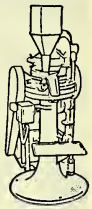


BCP2 BENCH COATING PAN WITH HOT AIR BLOWER

MANESTY B3 ROTARY TABLET MACHINE

OUTPUT 400-500 PER MIN.

FOR TABLETS UP TO 1/2" DIAM.



MANESTY Nº2A TABLET MACHINE

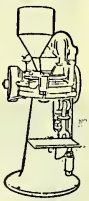
OUTPUT 55-220 PER MIN.

ABLETS UP TO 1 1/2" DIAM.

MANESTY D3 ROTARY TABLET MACHINE

OUTPUT 300-350 PER MIN.

FOR TABLETS UP TO 1" DIAM.



MANESTY R.S.1 ROTARY TABLET MACHINE

OUTPUT 168-336 PER MIN.

TABLETS UP TO 1 3/8" DIAM.

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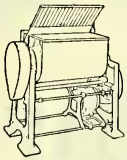
OUTPUT 150-224 LBS. PER HOUR.

MANESTY MIXER

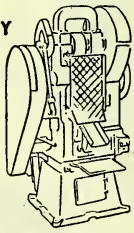
CAPACITY 100 LBS. OF POWDER



MANESTY Nº3 TABLET MACHINE

OUTPUT 30-400 PER MIN.

FOR TABLETS UP TO 2 1/4" DIAM.



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show that modern plastic dentu
can look completely natural.
This campaign has a strong appeal
young denture-wearers especially
an appeal which will bring you m
and more regular customers
Steradent. Remember, more than h
your customers wear dentures!
Steradent can be recommended as
safe and highly efficient cleanser
all types of dentures.

Steradent REGD

cleans and sterilizes every type of dentu

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CONSISTENT
Purity, Strength
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ONTAINS NO RUBBER

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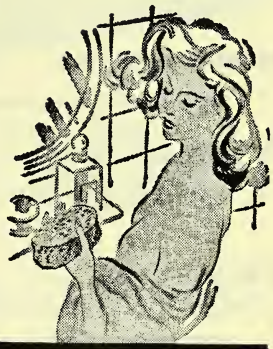
REGD TRADE MARK

THE FINEST SPONGE MADE OR GROWN



AL TOILET SPONGES selling at 3/8d. and 2/9d. including .T. are now available in *four delightful colours*—natural ellow, blue, green, pink (packed in dozens, standard ssortment or all one colour)—a really fine contribution o your window and counter display.

E SPONTEX BABY SPONGE—extra fine, extra soft, in natural yellow, blue and pink, beautifully wrapped. 2/5½d. including P.T.

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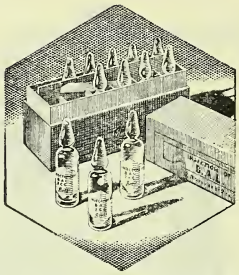
der from your usual supplier, or, in case of difficulty, ite to:

ONCEL LTD., WOLDHAM RD., BROMLEY, KENT.
Telephone: RAVensbourne 2641

Now in 4 delightful colours



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ORIGINALLY INTRODUCED during the war for the treatment of Lewisite gas poisoning, B.A.L. has now been applied to the treatment of poisoning by other arsenical compounds as well as mercury and gold salts.

Injection of B.A.L. consists of a sterile 5 per cent. solution of 2, 3-Dimercapto-propanol in arachis oil containing 10 p cent. Benzyl Benzoate. Supplied in box of 12 x 2 c.cm. ampoules.

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and many other Cellulose Derivatives (Duprin Methyl and Carboxy-methyl Celluloses).

For Foodstuffs, also for stabilising Ice-cream.

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in block or powder.

AMMONIOUM THIOGLYCOLLATE

for Cold Permanent Waving
Also Thioglycollic acid and oth salts.
Various strengths
Full instructions for use
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WATFORD CHEMICAL CO. LTD

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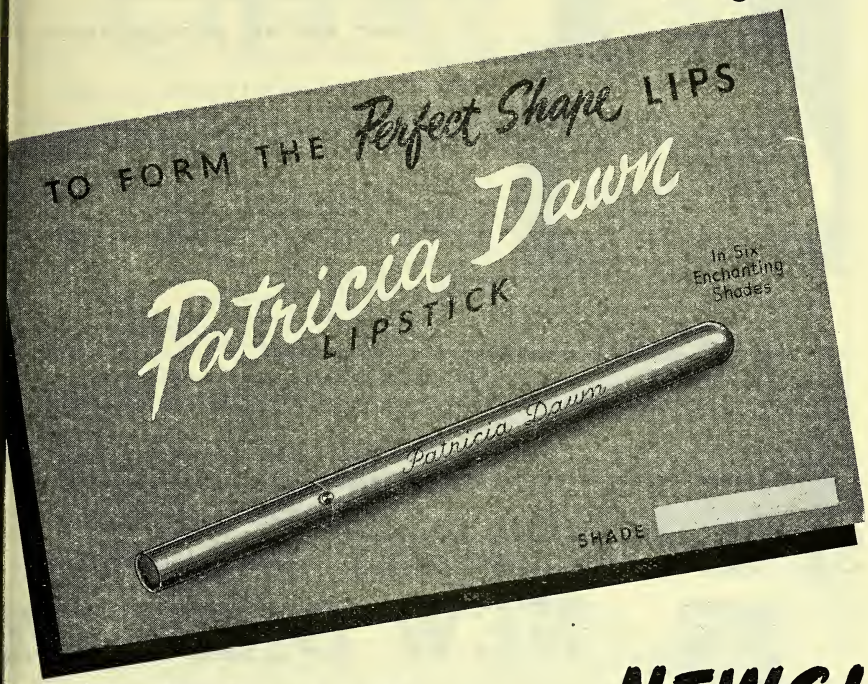

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Longer lasting—it really *stays*.
Six wonderful colours—all indelible.
Special shape for fine outline, broad fill-in.
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Superfine texture that's really s-m-o-o-t-h.
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HAW REGENT LTD., 157-161 REGENT STREET, W.1. TEL. REG. 5970

PREGNAVITE

a single* supplement for safer pregnancy

CLINICAL USES. To improve the nutritional state where circumstances prevent consumption of all the protective foods required: to prevent hypochromic anaemia. Indications in the history of previous pregnancies: toxaemia, previous premature births, inability to breast feed, and dental caries.

Bottles of 120 tablets (20 days' supply) 6/-.
Per dozen bottles 49/-.

* The recommended daily dose provides: vitamin A 2,000 i.u., vitamin D 300 i.u., vitamin B_1 0.6 mg., vitamin C 20 mg., vitamin E 1 mg., nicotinamide 25 mg., calc. phosph. 480 mg., ferr. sulph. exsic. 204 mg., iodine, manganese, copper, not less than 10 p.p.m. each.

Make sure your stocks of PREGNAVITE are sufficient to meet the demand.

VITAMINS LIMITED, UPPER MALL, W.6

SELL ON SIGHT with this NEW DISPLAY

To most of your customers, Dr. Williams Pink Pills are a familiar and well-tried tonic. Over fifty years of careful manufacture and world-wide advertising have developed universal recognition. Our new Display Pack on your counter provides the necessary reminder to the public *at the point of sale.*

By linking up in this way, you get the biggest benefit from our powerful continuous press advertising.

SHOW MORE : SELL MORE

Dr. Williams Pink Pills

G. T. FULFORD CO., LTD. (of Canada), 8 Royston Park Road, Hatch End, Middlese

In the choice of an Analgesic

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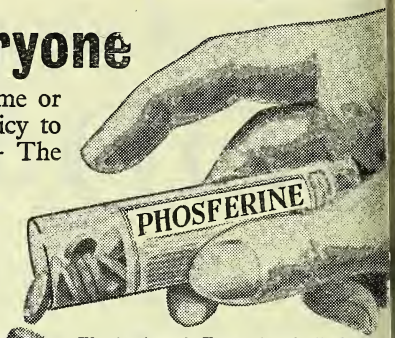
Send a post-card for colourful showcards to enable you to make a display to the best advantage.



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LANTIGEN 'B' for Catarrh and Bronchitis.
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'CODEMPRIN'

TRADE MARK

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AMPOULES
1/300 gr. for intramuscular and intravenous injection

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TABLETS : 2.5 mgm. 1/24 gr.
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AMPOULES : 1/2 mgm. = 1/120 gr. for intramuscular injection.
SOLUTION : 1/100 = 50 drops = 10mgm.

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Solution 1/1000—10 c.c.

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QUINICARDINE TABLETS

Supplied in boxes of 20

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The

CHEMIST AND DRUGGIST

for RETAILER—WHOLESALER—MANUFACTURER

SEPTEMBER 10, 1949

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NEWS OF THE WEEK

Exhibition of Technical Books.—An ibition of technical books is being staged the Royal Arsenal Co-operative Society, ., Powis Street, London, S.E.18, Sep- ıber 20-23 (during business hours). The ibition will include books on chemistry, mical engineering and photography.

Bottle Restrictions Removed.—The ırd of Trade has made an Order (The ıtrol of Containers and Packaging der (No. 6), 1949), removing, from tember 12, the restrictions on the sizes glass bottles that may be used for the kaging of goods for the home market.

Symposium on Amino Acids.—The iety of Chemical Industry has arranged ymposium on "Amino Acids and Pro- ı Hydrolysates" to be held in the Wil- n Beveridge Hall, Senate House, Uni- sity of London, W.C.1, September 28- Registration forms and programmes y be obtained from the Society of emical Industry, 56 Victoria Street, V.1.

Printing Design Exhibition. — The Council of Industrial Design is to hold an exhibition in London from March 3 to April 10, 1950, the theme of which will be "Design in Business Printing." It will be the first of its kind to be held in this country. Particulars can be obtained from the Council's office, Tilbury House, Petty France, London, S.W.1.

Electronics in Research.—A symposium on the application of electronics to research and industry is being presented by the Scientific Instrument Manufacturers' Association at the Examination Hall, Queen Square, London, W.C.1, November 2-4. Tickets of admission and further particulars are obtainable from the Association, 17 Princes Gate, London, S.W.7.

New Film on Poliomyelitis.—A ten-minute film called "Johnny Green in His Fighting Chance" was recently completed by the Ministry of Health. The film portrays the rehabilitation of poliomyelitis victims by modern medical techniques. Copies

will be available from the Central Film Library, Imperial Institute, London, S.W.7, to borrowers with their own projectors early in September.

Safety Conference.—A conference on safety in chemical works is being organised by the Royal Society for the Prevention of Accidents on behalf of the Association of British Chemical Manufacturers at Scarborough, October 7-9. The Conference will be opened by Sir Harry Jephcott (chairman, Glaxo Laboratories, Ltd.). The safe use of solvents, the installation and maintenance of breathing apparatus, and the use of electrical apparatus in hazardous atmospheres will be among subjects discussed. Particulars may be obtained from the Society at its headquarters at 131 Sloane Street, London, S.W.1.

Trade Consuls in U S.—As part of a scheme to assist United Kingdom manufacturers and exporters in their bid for more trade with the North American continent, the Board of Trade has appointed Superintending Trade Consuls in four United States regions, as follows:—*Atlantic,* Mr. R. Reid-Adam, O.B.E., British Con ulate General, 61st Floor, Empire State Building, 350-5th Avenue, New York, 1. *Midwestern,* Mr. D. A. H. Wright, British Consulate General, 29 S. La Salle Street, Chicago, Illinois; *South and South-western,* Mr. T. C. Sharman, British Consulate General, 1022 Canal Building, 210 Baronne Street, New Orleans, 12; *Western,* Mr. W. H. Adams, M.B.E., British Consulate General, 310 Sansome Street, San Fransisco 4.

Pavlov Centenary.—A commemorative lecture on I. P. Pavlov, the centenary of whose birth falls during September, was given at the Polish Cultural Institute, London, recently by Professor J. Konorski (a director of the Biological Institute of Lodz) under the chairmanship of Professor E. D. Adrian, O.M. (Professor of Physiology, Cambridge University). Professor Konorski, who worked under Pavlov at the Pavlov Institute in Leningrad from 1931 to 1933, surveyed Pavlov's work on conditioned reflexes and gave an estimate of its significance for modern science. He said that Pavlov might come to be regarded as the man who laid the foundations of the branch of human knowledge concerned with the field of higher nervous activity. Professor Konorski described Pavlov as a brilliant surgeon. Pavlov operated with his left hand, and wrote with his right hand—which made it difficult for assista to work with him. At the height of powers he was tireless. He once said t up to the age of seventy-five he had " known what it was to be tired." Pav had come upon his discoveries by the p cess which Newton so modestly descri as continued "thinking upon a subje Pavlov's counsel to young scientists at close of his long life included the wor "Facts are the air of the scientist: with them you will never be able to soar."

Ph.C. Examination Results.—The lowing candidates satisfied the exami in the Pharmaceutical Chemist Qualify examination of the Pharmaceutical Soci held in England and Wales in July:—

Adamson, James D., Corringham, E
Bruce, Hazel J. (Mrs.), London
Chatterjee, Santosh H., Lambeth
Clark, Sheila, Edmonton
Cribb, Arthur R., Barnet
Da Silva, Adalberto A. G., London
Dixon, Sydney C. G., Brighton
Dobson, Catherine G., Romiley, Ch
Down, Shelagh M. D., Chichester
Duckworth, Frederick H., Blackburn
Edwards, Walter, Manchester
Farmer, Jean B., Mexborough
French, Gordon O., Tunbridge Wells
Gibson, Walter J., Llanstephan, Car
Goldstein, Arthur L., Hackney
Gray, Alexander T., Hamilton, Lana
Hadfield, Alan, Ludgershall, Andov
Hobbs, Russell J., Bristol
Hughes, Gareth, Longhor, Glam
John, Dilys M., Uxbridge
Jones, Gwilym, Manchester
Junior, Anna D., Manchester
Kempton, Gerald A., Altrincham
Lee, Arthur E., Crediton
Lee, Douglas K., Chelsea
Lofthouse, Sidney C., Lichfield, Staff
Martin, Gwyn, Aberystwyth
Meudell, Thomas A., Cwmfelinfa
Parkes, Constance V., Walsall
Pearson, Frederick H., Luton, Beds
Rogers, Kenneth, Bude, Cornwall
Smith, Barbara S. A., Rickmanswo
Storr, William L., Bournemouth
Stow, Noel J. G., Ipswich, Suffolk
Stray, Joyce M., Purley, Surrey
Summers, Ronald L., Walworth, Lond
Tapper, Malcolm O. F., Yeovil
Templeton, Kenneth, Workington
Terry, Norman A., Hove, Sussex
Whitaker, Mary, Ottershaw, Surrey
Wood, Douglas G., Southampton
Wood, Philip J. S., Smethwick

LOCAL NEWS

Visit to Lavender Works. — Members the London and South Eastern Coun- section, Royal Institute of Chemistry, ted the lavender fields and distilleries Yardley & Co., Ltd., Hunstanton, Nor-, on August 3.

Works Visitors.—Recent visitors to the ablishments of Evans Medical Supplies, l., Speke, Liverpool, have included the ffield Branch of the Pharmaceutical iety; the Bolton Pharmaceutical Asso- ion; students from the Liverpool ool of Pharmacy; a party organised by University Settlement in Liverpool; dent nurses from Crumpsall Hospital; l senior students from Liverpool Insti- High School.

Manchester Outings.—Members of the nchester Pharmaceutical Association l Branch of the Pharmaceutical Society ted Chester on August 31. After a t trip on the Dee, the party was wel- ned at tea by Messrs. W. Gee (Associa- n president) and Mr. H. Steinman anch chairman).—At the Manchester lf Club recently a four-ball Stableford npetition was played for prizes presented Robinson & Sons, Ltd. The winners re Messrs. B. Anderson and H. Heavers), first; F. C. Baines and E. Henderson), second.—In a competition played re- tly at Reddish Vale Golf Club for the rfoot trophy and memento prize, Mr. R. maine (79) received the first prize. Mr. T. Williams (an apprentice to a Man- ster hospital) (3), 68, was awarded ond prize.

Technological Training. — Subjects of ning courses in technology and indus- l law arranged during the coming sion at the Sir John Cass Technical In- ute, Jewry Street, Aldgate, London, .3, include the following:—"Recent velopments in the Chemistry of Anti- tics" (Fridays, 6.30-7.30 p.m., com- ncing October 7); "Michrochemical alysis" (Thursdays, 6-8 p.m., commenc- ; January 19, 1950); "Statistical thods in Scientific and Industrial Re- rch" (Mondays, 6.45 p.m., commenc- ; September 26); "Industrial Law" hursdays 6.-7.30 p.m., commencing ptember 29); "Patents and Industrial sign Protection" (Thursdays, 6-7.30 n., commencing January 26, 1950); and Trade Marks" (Thursdays, 6-7.30 p.m., mmencing April 20, 1950).

IRISH NEWS

Belfast Shop Hours.—The Belfast Corporation has decided to make an order that all chemists' and druggists' premises in the city should be closed for serving customers at 6.30 p.m. on "normal weekdays" (days other than the weekly half-holiday or late day). The order is subject to the approval of the Ministry of Home Affairs, but when that has been given the Ulster Chemists' Association is expected to put into operation at once its arrangements for a late service for urgent medicines—an undertaking it gave when a Closing Order was first requested.

Container Fee, Northern Ireland.—Chemists in Northern Ireland have been notified by the Ministry of Health and Local Government of a reduction from 3d. to 1½d. in the container fee payable under the Health Service. The fee had been the subject of negotiations since the Ministry had proposed that a saving should be made in the cost of medication. As in Britain, a condition of the new arrangement is that the Ministry and the General Health Services Board shall appeal to the public to return their containers in a clean condition. Chemists will affix labels to bottles asking their customers to do this.

OVERSEAS NEWS

Paris Cancer Conference.—The fifth International Cancer Congress, which is to be held in Paris in July 1950, is being organised by the *Union Internationale contre le cancer.*

Trade Agreement with West Germany.—Under the terms of a new trade agreement concluded recently, Western Germany is to purchase chemical goods to the value of about £1,500,000 from the sterling area, to be offset by German exports estimated at £840,000.

Synthesis of Vitamin A.—Using beta ionone (from lemongrass oil) as a starting material, the achievement of a synthesis of vitamin A, based on work done in 1936 in Britain by Sir Ian Heilbron, has been announced by Dr. H. M. Wuest, director of research at the William R. Warner & Co., Inc., Institute for Therapeutic Research, New York. The process involves the addition of two more carbon atoms to beta ionone, and the reduction of vitamin A acid with lithium aluminium hydride. Synthesis on a commercial scale has been started.

COMPANY NEWS

Lotions (Retford), Ltd. (P.C.).—Capital £1,000. To carry on the business of manufacturers of and dealers in medicines, liniments, drugs, chemicals, etc. Thomas A. Smith and Maurice D. Pick, directors. R.O.: Bank Chambers, The Square, Retford, Notts.

F. C. Davison, Ltd. (P.C.).—Capital £1,000. To carry on the business of manufacturing and dispensing chemists and druggists, sundriesmen, etc. Francis C. Davison, M.P.S., and Kathleen E. Davison, directors. R.O.: 90 Victoria Road, Kirkby-in-Ashfield, Notts.

Laboratories Du Vitalong, Ltd. (P.C.).—Capital £300. To carry on the business of manufacturers of, and dealers in, cosmetics, perfumes, etc.; manufacturing, wholesale and retail chemists. Jesse Pizzey and Robert J. Caton, directors. R.O.: 61 Fore Street, London, E.C.2.

Simons Pharmacy, Ltd. (P.C.).—Capital £100. To carry on the business of pharmaceutical and general chemists, etc. George F. Jackson, Mrs. Olive A. Jackson, Norman Brunsden, M.P.S., Sidney Simons, M.P.S., directors. R.O.: 150 Boston Road. Hanwell, London, W.7.

Kloryde Chemical Co., Ltd. (P.C.).——Capital £4,000. To carry on the business of chemists and manufacturers, and dealers in chemicals, bleaching powders and liquids, etc. Albert Gardner, Frank Jackson, and William C. Gardner, directors. R.O.: Weedon Road, Northampton.

Fernley Wallis (Chemists), Ltd. (P.C.).—Capital £4,000. To acquire the business of a chemist and druggist carried on by Thomas G. F. C. Wallis at Plymouth. Thomas G. F. C. Wallis, M.P.S., Reginald R. Wallis and Fernleigh K. T. Morcom, directors. R.O.: Market Gates, Plymouth.

Berkeley Perfumery Co., Ltd. (P.C.).—Capital £10,000. To carry on the business of manufacturers of and dealers in cosmetics, soaps, perfumes, chemicals, etc. Harry Green, Bernard Green, Ivor Green and John G. Lawson, directors. Solicitors: Thornton Lynne and Lawson, 31 Bedford Row, London, W.C.1.

Vokes Ernst Scientific Surgical Appliances, Ltd. (P.C.). — Capital £20,000. To carry on the business of manufacturers, importers and exporters of, and dealers in, artificial limbs, orthopædic, surgical, medical and other instrume etc. Sir Ian S. Richardson, Bart., Cecil Vokes, Evan L. W. Byrne, Jim Phill Herbert F. Osborne and Geoffrey Ernst, directors. R.O.: Henley Pa Guildford, Surrey.

Xzit (G.B.), Ltd. (P.C.). — Cap £4,000. To carry on the business of ma facturers and dealers in liquid oil tre ments consisting of coal tar and mine solvents combined with metallic soa refractory coatings consisting of clays a metal oxides combined in oil to prod heat-resisting coatings, etc. Comman Arthur L. White, R.N. and Edw Sworder, directors. Solicitors, Hunters New Square, Lincoln's Inn, W.C.2.

Boots Pure Drug Co., Ltd.—Inte dividend declared for half-year ending S tember 30, of 10 per cent., less tax, ordinary shares.

J. Allen Rubber Co., Ltd.—The dir tors announce that Mr. Frank A. Midc ton has resigned from the position of m aging director and is no longer connec with the company. The company will controlled by Lydney Industrial Esta Ltd., by whom the business was purcha from Mr. and Mrs. Frank A. Middle just over eighteen months ago. Mr. J. Mills, the managing director of Lyd Industrial Estates, Ltd., has been appoin managing director of J. Allen Rubber C Ltd. The factories at Cheltenham a Lydney, will continue to operate as befo

BUSINESS CHANGES

Mr. H. J. R. Dodgson has purcha the business at 4 Church Street, Lei wardine, Bucknell, Salop.

Emmet Distributing Co., Ltd., ha removed to 143 Upper Street, London, N (Telephone: Canonbury 2114).

Gale & Mount, Ltd., manufacturi chemists, have removed to 37 Rothsch Road, London, W.4 (Telephone: Ch wick 6628).

The Mica Directorate, Board Trade, has removed to Empire House, Martins le Grand, London, E.C.1 (Te phone: Clerkenwell 7931).

The registered office and only a dress of Charles Midgley, Ltd. (forme of City Road, Manchester) is Speke, Live pool, 19 (Telephone: Hunt's Cross 188

TOPICAL REFLECTIONS

ish Association Addresses

Your report of the addresses of the ident of the British Association for the vancement of Science (Sir John Russell) of two sectional presidents (p. 303) is eminder of the scope of this annual ction and of the large attendance that attracts. Both Sir John Russell and fessor Lily Newton dealt with certain cts of the problem of securing adete supplies of food for mankind, unstionably one of the greatest and most ent problems confronting science today. aking as a botanist, Professor Newton rred to the possibility of using as food a large scale various kinds of seaweed. question is not entirely new. The yclopædia Britannica (9th edition) s that "dulce and tangle" was form- a street-cry in Edinburgh, and devotes ubstantial paragraph to naming seads presumed to be suitable for human sumption. Apparently, however, such ary material is not easily assimilated everyone. Preparation for sale on a mercial basis would, in any case, ine preliminary research and expense but, he form of alginates, seaweeds already upy a position of importance as adjuncts , emulgents) in the foodstuffs industry. John Russell's discussion of the factors be considered in attempting to obtain ermanent increase in food production thorough. He spoke of marginal lands, e elements, fertilisers, weeds, mechanion and agricultural workers. Of fertil- he said that they can be produced almost unlimited quantities. He added the control of weeds is essential. By dern systems a farmer could feed from en to twenty persons, provided that e of them supplied him with essential liances. From our small area of land might raise half of our food and imve the quality of meat and milk.

ode for Packaging

Iow seriously the subject of packaging egarded in industrial circles is shown the revision, now in progress, of the ish Packaging Code (p. 309). The de, it will be noticed, is appearing in nteen sections "as and when ready." eral sections are available, though some them are issued in a provisional form. complete the scheme, a glossary of kaging terms is being prepared. These other details supplied indicate that correct packaging is more important than many people have hitherto realised. The Code gets down to basic factors in its recommendations. It postulates, as an ideal, that "as a rule" any product should be one that "can be packed into a simple container without requiring extensive blocking, padding or wrapping." Obviously this rule cannot be applied to glass bottles containing volatile liquids. But it is worth carrying out, as far as is practicable, when machinery or any article of distinctive shape is to be dispatched. The Code makes the further point that the same package will not necessarily serve for both home and overseas. It may be hoped that the Code is dealing with methods of handling heavy cases of merchandise. They often look extremely neat but are not easy for the average person, encountering them in a shop, to manipulate.

Goethe's Pharmacists

Students in all countries are indebted to Dr. George Urdang for tracing (often, no doubt, with much difficulty) the numerous contacts between Goethe and pharmacists of the late eighteenth and early nineteenth centuries (p. 315). Not since Leonardo da Vinci, who died in 1519, has there arisen, I think, so versatile a genius as Goethe: the impression he made on his contemporaries has not needed much correction for the purpose of present-day appraisement. Dr. Urdang shows that the regard of the poet-statesman for many pharmacists of his acquaintance was not the mere tolerance of a man of established position for humble persons who by chance came within his purview. On the contrary, he was ready to learn from them whatever might serve his purpose as a speculative thinker or assist him as an administrator in Saxony-Weimar. Brief biographies of pharmacists known to Goethe form a mine of information in the professor's booklet. Among them Luke Howard, once a partner with William Allen and then founder of Howards & Sons, Ltd., obtains a prominent place. To the many facts assembled in "Goethe and Pharmacy" may be added the attribution to the author of "Faust" of the term "morphology" (with terminal "ie"). The Oxford English Dictionary cites "Gray" (presumably the botanist Asa Gray) as stating that Goethe used the word "at least as early as 1817."

Xrayser

DEATHS

MICHELSON.—In South Shields general hospital, on August 30, Mr. Eleazer Michelson, M.P.S., 7 Lavington Road, South Shields, aged seventy. Mr. Michelson was in business as Michelson & Co., 43 Fowler Street. He served his apprenticeship with James Walker, chemists, Tyne Dock, qualified in 1900, and set up his own business in 1903. Among his many appointments he was vice-chairman of the South Shields Executive Council; chairman of the local Pharmaceutical Committee; chairman of the Ophthalmic Services Committee; and a member of the Finance and General Purposes Committee. The funeral took place at Harton Cemetery, South Shields, on September 1. The service was conducted by the Rev. E. Drukker, Jesmond, assisted by the Rev. S. Ginsberg, Southend-on-Sea. Family mourners included a doctor and pharmacist sons and the following:—Representing the local Pharmacists' Association and local Pharmaceutical Committee, Messrs. Turner Bell, G. I. Coulthard, J. W. Darling and M. S. Pearson; representing Masons the Chemists, Mr. W. Mason. Other mourners included Mr. C. S. Richardson (chairman of the Executive Council), Mr. Albert Waller (Clerk to the Council), Councillor A. E. Gompertz, the Town Clerk (Mr. H. Ayrey), Messrs. A. L. Friends, A. Flint, G. Plater, E. Jones, H. Lipman and S. Brooke. Messrs. M. S. Pearson (chairman) and Turner Bell (secretary) of the local Pharmacists' Association were greatly helped by Mr. Michelson in forming and running that active pharmaceutical body.

MITCHELL.—At 7 McDonald Road, Edinburgh, on September 1, Mr. Donald Mitchell, M.P.S., formerly of 30 Union Street, Inverness. Mr. Mitchell qualified in 1894.

RICHARDS.—On August 25, Mr. John Richards, Pencwm, Boulnos Avenue, Parkstone, formerly of 55 South Street, Isleworth, Middlesex. Mr. Richards qualified in 1890.

ROBERTS.—On August 14, Mr. Caswallon Pugh Roberts, M.P.S., 9 Avondale Road, Edgeley, Stockport, Ches. Mr. Roberts qualified in 1900.

STUART.—At an infirmary in Glasgow on August 27, Mr. Charles John Stuart, M.P.S., 21 Broomlands Street, Paisley. Mr. Stuart qualified in 1900.

PERSONALITIES

MISS MAUD O. LE TISSIER, Gue who studied pharmacy at the local b of Boots, Ltd., during the German pation, has been admitted to practi the island Royal Court after qualifyi the age of twenty-two. Miss Le Tissie been appointed to the pharmacy at she served her apprenticeship.

MR. BERNARD OLIVE, M.P.S., the appointed chairman of the Cambr Huntingdon and District Branch o Pharmaceutical Society, was appren at a branch of Hodders, Ltd., at and, after study at the (Bristol) Mer Venturers' Technical College (wher was secretary of the Pharmacy Stu Association), qualified in 1939. Sh afterwards he joined the staff of G. & Son, Ltd., Cambridge. After se for four-and-a-half years in the Roya tillery, he was commissioned in 1945. being demobilised in 1946 he rejoine staff of Messrs. Peck, of whose dispe and T.S.A.-licensed departments Trumpington Street he is at preser charge. He is a member of the bridgeshire Pharmaceutical and Hou Service Committees.

MR. W. F. WILKINSON, Ph.C., who recently appointed assistant secretar the London Pharmaceutical Committee, was educated at Torquay Grammar School and apprenticed with Boots, Ltd., Newton Abbot, South Devon. He qualified in 1942 and passed the Pharmaceutical Chemist Qualifying examination from "The Square" in July 1943. From 1943 to August 1946 he served in the R Navy as a Lieutenant, and from 194 1947 was demonstrator in pharmace at the College of the Pharmaceu Society. From 1947 to 1949 he was gaged in retail pharmacy in the Lon area, and in 1947 he was elected a Fe of the Chemical Society and a Mem of the Society of Public Analysts and o Analytical Chemists.

LEGAL REPORTS

leged Misleading Label.—On a e of selling a mixture known as is Evans' household oil under a label lated to be misleading, Frank Evans, Manufactory, Festiniog, North Wales, fined £25 and ordered to pay £38 at Beaumaris, Anglesey, recently. The cution stated that the label gave 94.5 ent. pine oil. When three bottles were sed they were found to contain only er cent. pine oil, with 84 per cent. ral oil. Evans in evidence denied that ed mineral oil in the production.

B. Treatment Circularised.—On a e of unlawfully advertising by circu- nd letter a preparation know as T.35 he treatment of tuberculosis, Albert Dobbs, chef, Gloucester Road, Ken- n, London, S.W., was fined a total 10 at West London police court on mber 1. In addition to the unlawful tising summons under the Pharmacy Medicines Act, 1941, Dobbs also led guilty to selling T.35 in a package abelled to show its composition (when sed it proved to be ground laurel s). For the Pharmaceutical Society reat Britain, who prosecuted, it was that, in a letter sent by an inspector e Society asking for particulars of his nent of tuberculosis, Dobbs replied T.35 had been in use for the cure of culosis in Germany for twenty-seven . The substance had been discovered, Dobbs, by a Bavarian woman, and was grown in southern Europe. The cost of a quantity sufficient for treatment was £5. There was a stipulation that the treatment must be superintended by a doctor. An inspector of the Pharmaceutical Society gave the value as approximately 2s. per lb. Dobbs, a naturalised British subject of Viennese origin, informed the inspector that he was only an agent in this country for the preparation. Dobbs told the magistrate that he did not think he was committing an offence because he did not put an advertisement in the newspapers. He charged £5 because he had to go to Paris to collect the preparation.

1542 Act as Defence.—At West Ham police court recently, Lawson Lester, 6 Wilmington Square, London, W.C.1, quoted "Statute 34 and 35. Henry VIII, chapter 8" in his defence on charges under the Pharmacy Acts. Part of the operative words of the Statute were:

"Be it ordained established and enacted by authority of this present Parliament that at all times from henceforth it shall be lawful to every person being the King's subject having knowledge and experience of the nature of herbs, roots and waters . . . to practise, use and minister in and to any outward sore, wound, outward swelling, or disease, any herbs or ointments . . . according to their cunning, experience and knowledge in any of the diseases, sores and maladies aforesaid, or drinks for the stone or agues."

The magistrate, who imposed fines totalling £20, said that in his opinion the Statute did not apply to the case.

RSONALITIES OF SCIENCE ON POSTAGE STAMPS—7

RT Koch, the ct of a Ger- stamp previ- illustrated & D., August 6, 2) appears also a Danzig 15 nig grey stamp issued in . The Hun- an 4-filler blue p (right) de- I. P. Semmel- (1818-65), a na obstetrician showed that un- enic conditions much to do with puerperal sepis. His ence on cleanliness and use of anti- septics aroused opposition, and he left to became professor of obstetrics, Budapest.

TRADE NOTES

Price Reduced.—The Crookes Laboratories, Ltd., Park Royal, London, N.W.10, announce a reduction in the price of single bottles of 1,000 Crookes caps. ol. hippoglossi, N.F., 1949, as from September 1.

Agents in Dublin. — Paines & Byrne, Ltd., Pabryn Laboratories, Greenford, Middlesex, have appointed St. Dalmas (Ireland), Ltd., Henrietta Place, Dublin, to be agents for Pabryn hormone, vitamin, liver and endocrine preparations.

Distribution Change. — Chemists are asked to send all inquiries for Carnegie surgical dressings and for Cellusan products to J. C. Eno, Ltd., Watford, Herts, who are now the sole selling agents and distributors for Carnegie Bros., Ltd., and the Cellusan Co., Ltd.

Again Available. — Sandoz Products, Ltd., pharmaceutical department, 134 Wigmore Street, London, W.1, announce that the 1,000 size of Bellergal tablets and the 500 size of Femergin tablets (during recent months temporarily reserved to hospitals) are again available to the trade.

Throat Dragees. — Pharmaceutical Laboratories Geigy, Ltd., National Buildings, Parsonage, Manchester, 3, have introduced Siogen dragees for prophylaxis against throat infections. The active ingredient of Siogen is 5.7 dichloro-8-hydroxyquinaldine, 2 mgm. The product is available in packets of twenty and containers of 100 dragees.

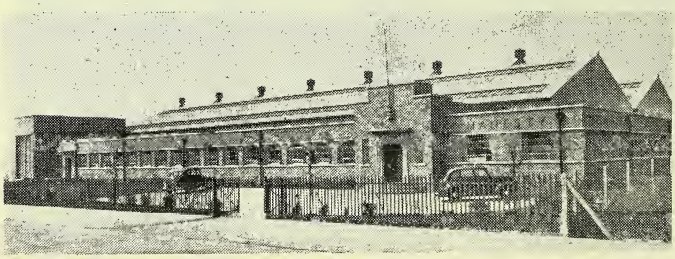
Zinc Oxide Plaster.—Edward Taylor, Ltd., Monton, Lancs, makers of medical and surgical plasters, wish to point out that flesh-colour zinc oxide plaster of their manufacture recently advertised by a firm of dealers as "surplus stock" was not purchased direct from them and is apparently war surplus stores, for the condition of which they accept no responsibility.

Now in Commercial Productio British Chemicals & Biologicals, Ltd., Regent Street, Loughborough, Leics, s that the following substituted thioureas now in commercial production: Ethyl α-naphthyl, phenyl, o-tolyl and di-o-t thioureas. In research quantities the lowing substituted thioureas are also a able: N-amyl, ethyl, n-hexyl, α-napht n-propyl, m-tolyl, p-tolyl thioureas.

Dispensing Packs.—Glaxo Laborato Ltd., Greenford, Middlesex, announce introduction of dispensing packs of vita B_1 (Berin) tablets in 1-mgm., 10-mgm. 25-mgm. strengths (1,000, 1,000 and respectively). Dispensing packs of 1, vitamin C (Celin) tablets in 5-mgm. 25-mgm. strengths are also introdu On September 5 the face price of 80-oz. size of syrup Minadex was increa without change in prices for the 6-oz. 12-oz. bottles. Discounts are unchanged

Additions to Ranges.—Bob Mar Ltd., Southport, Lancs, have introdu Bob Martin's worming oil—"a safe effective remedy for round-worm infe tion in dogs and puppies," suitable puppies over eight weeks old and adult dogs of all sizes; each teaspoo contains ol. chenopodii, 1.5 minims ol. ricini, 58.5 minims.—Westmins Laboratories, Ltd., Chalcot Road, L don, N.W.1, have introduced a two-tal pack of Bonomint.

At Veterinary Exhibition.—A re sentative range of veterinary products shown by Evans Medical Supplies, L Speke, Liverpool, 19, at the exhibition h recently in connection with the In national Veterinary Congress. The produ shown included sera and vaccines prepa at the Evans Biological Institute for prophylaxis and prevention of diseases



NEW WORKS. — view of new work Speke, Liverpool, for Manesty Machi Ltd., makers of ta machines and a matic water st The company is wholly owned subs ary of John Holr & Co., Ltd., Milnr Lancs, machine- makers.

es, cattle, sheep, and dogs; calcium gluconate solution and granules; tyl (carbachol); Diarsin (an arsenical aration for parenteral use); Marsan arsphenamine Evans for blackhead in eys); Malagride (acetarsol Evans for khead in turkeys) and many others.

ew Product for Old.—The British g Houses, Ltd., Graham Street, City d, London, N.1, have introduced iomulsin, an emulsion containing vita- A, B_1, B_2, C, D_2 and nicotinamide to ace Radiostoleum emulsion with vita- C, which is being withdrawn from the et. The new preparation contains a r range of vitamins than the product places and is much more palatable. teaspoonful has the following vita- content: A, 2,500 i.u.; B_1, 0.75 mgm.; .5 mgm.; C, 15 mgm.; D_2, 1,000 i.u.; tinamide, 7.5 mgm.; Radiomulsin is nded as a dietary supplement for in- and children and—during convales- or under restricted diet—for adults It is available in bottles of 4, 16 and . oz.

ow Tax-free.—Evans Medical Sup- s, Ltd., Speke, Liverpool, 19, state tax-free 5-gall, convertible pails and all. drums of Zant became available on ember 1.—Hough, Hoseason & Co., , Atlas Laboratories, Levenshulme, chester, 19, state that under the Pur- e Tax (No. 3) Order, 1949, the wing specialities of the company are pt from purchase tax. They are ed in standard non-returnable dispens- packs as indicated: Adrastol tablets, and 100's; Amphogel, bottles, 8 and . oz.; Arthritone triple treatment tab- 100's; capsules, 50's; massage cream, 2-oz. and 4-oz.; Bismagal, bottle, . oz.; Glucovite, bottle, 8 fl. oz.; dine, bottles, 4 and 8 fl. oz.; Leci- , bottle, 8 fl. oz.; Quinogen, tablets, and 100's; Somnoral, tablets, 25's and s; Elixir, bottles, 2, 4 and 8 fl. oz.; oin, bottles, 4 and 8 fl. oz.—Pharma- ical Laboratories Geigy, Ltd., onal Buildings, Parsonage, Manches- 3, announce that Eurax is now exempt Purchase Tax under the Purchase (No. 3) Order, 1949.—P. Samuelson o., Africa House, Leadenhall Street, don, E.C.3, point out that under the hase Tax (No. 3) Order, 1949, oxetol is now exempt from tax under name ethyleneglycol monophenylether.

At Scottish Industries Exhibition.—Part of the exhibit of the Distillers Co., Ltd., at the Scottish Industries Exhibition, Glasgow, September 1-17, has to do with the manufacture of industrial chemicals, plastics, biochemical products and antibiotics. It deals with the activities of twelve sections or subsidiary companies of the Distillers Co., including the industrial alcohol department (all grades of undenatured ethyl alcohol); the Methylating Co., Ltd., (all grades of denatured ethyl alcohol); yeast and malt extract department (yeast and malt products for food, medicine and industry); Distillers Co., (Biochemicals), Ltd. (penicillin and other antibiotics); Carbon Dioxide Co., Ltd. (liquid and solid carbon dioxide); B.X. Plastics, Ltd. (cellulose, vinyl, and casein plastics); British Petroleum Chemicals, Ltd. (organic chemicals from petroleum); British Industrial Solvents, Ltd. (solvents, plasticisers and intermediates produced by synthesis); and Commercial Solvents (G.B.), Ltd. (organic solvents produced by fermentation).

T.U.C. ON PRICES & PROFITS

The Trades Union Congress General Council in a supplement to its annual report at Bridlington on September 5 states that any real contribution to reducing the cost of living must be sought from sources other than purchase tax. The greater part of the revenue obtained from the tax, it points out, comes from non-essential goods; if the tax were removed the fall would be less than two points in the index of retail prices. On profit margins, the report states that "a practical method of varying price margins according to the size or efficiency of firms has not been found," but "there are grounds for believing that some are still too high." The council has therefore asked the Chancellor of the Exchequer to institute an investigation into margins.

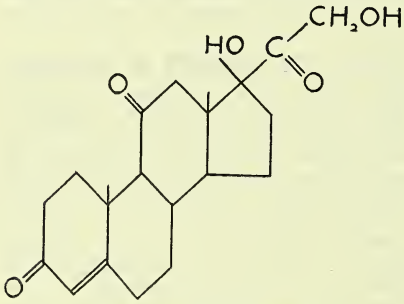
On dividend limitation the General Council puts forward its view that inability to secure 100 per cent. observance of the Government's appeal "does not make the policy a failure." In the four months March-June 89 per cent. (by capital invested) of companies had given no increase and 8.6 per cent had reduced dividends. The report concludes with a note on movements to secure higher wages. "A substantial increase in money wages, it says, would intensify both internal and external difficulties and have an adverse effect on the general standard of living."

COMPOUND E (CORTISONE)

A review of the history, chemistry, clinical trials, and possible sou of a hormone with important newly discovered properties.

ANNOUNCEMENTS made recently by Hench, Kendall and their colleagues [1], [2], at the Mayo Clinic, U.S.A., that the hormone "compound E" (Cortisone) has a dramatic effect on rheumatoid arthritis and rheumatic fever have aroused much interest among medical and pharmaceutical workers and the public. Though only a few patients have been treated, the discovery is considered by the President of the United States (where—at great expense—the work has been done) of such importance to medicine that he has announced his wish to "give the drug to the world."

The chief obstacle to conducting trials with Cortisone has been shortage of supplies. The total output—from Merck Laboratories, Rahway, New Jersey—has been



Compound E (Cortisone).

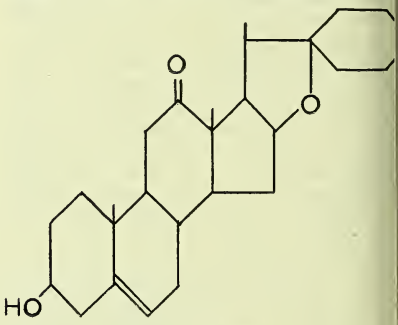
only sufficient for sixty patients, and the cost has been at the rate of £1,500 per patient per week. As recently announced[3] (*C. & D.*, September 3, p. 297) plant sources for a starting material for synthesising the hormone on a comparatively large scale are being investigated. Though new processes should greatly increase the supply, the demand for the drug, if its therapeutic value is confirmed, will be so great that still further sources may have to be found.

Structure of Compound E

Compound E (Cortisone) is one of six crystalline compounds (the others being called compounds A, B, C, D, and F) isolated from the adrenal cortex by Kendall at the Mayo Foundation in 1935, after four years' work. With the help of previous work by Reichstein in Switzerland, I dall, Mason and Hoehn[4] in 1938 sho compound E to be 17 hydroxy-11-d dro-corticosterone (see formula in prev column).

It will be noted that the compound a cyclopentanone-phenanthrene nuc (in common with, for example, vitamin sex hormones, bile acids, saponins and diac glycosides). Kendall and his collea found that compound E was identical compound A except that it had an a tional OH group at position 17. carbonyl group at C_{11} and the degr tion products did not show the usual reactions, and did not add methyl n nesium iodide. The compound beha like a hindered ketone which enolised the liberation of methane.

The discovery that the compound i use in rheumatoid arthritis came fro study commenced by Hench in 1929 the beneficial effects of pregnancy jaundice on rheumatoid arthritis. Aft number of years' work, during which had been using, more or less empiric transfusions of blood from jaundiced pregnant donors, female hormones, Hench conjectured the existence of anti-rheumatic substance X, which might an adrenal hormone." His conjecture supported by the knowledge that tem



Botogenin.

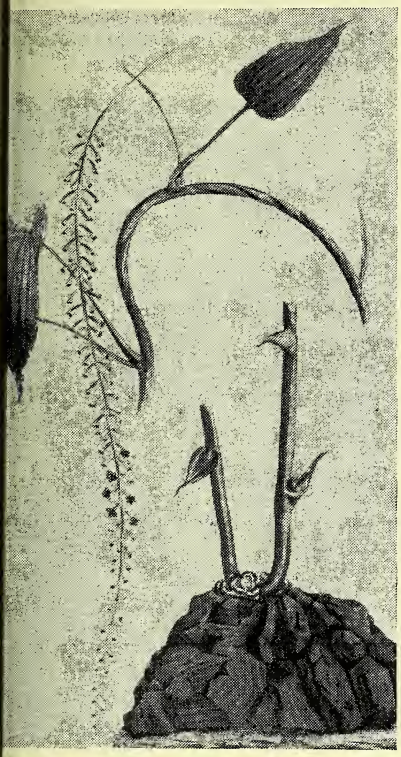
ary remissions of rheumatoid arthritis w reduced by procedures capable of stimul ing the adrenal cortices (for example, g eral anæsthesia and surgical operation).

In 1941 Hench became interested the adrenal cortical fractions isolated

dall, particularly in compound E, h had by then been shown by Dr. . Ingle to have, in animals, a marked t on muscular activity, an effect on bhydrate metabolism, and to cause ased resistance to stress, cold and toxic ances. As practically none of the bound was then available he had to ntinue his observations until Septem- 1948.

ial Synthesis

eanwhile, in 1940, Kendall and his orkers began attempts to produce the nones from substances more readily



ustration of the morphological characters of yam Dioscorea mexicana, *a source of botogenin.*

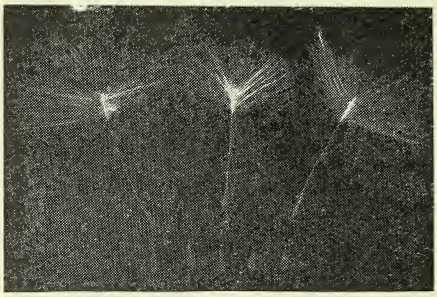
lable, i.e., to partially synthesise them. most promising approach seemed to n to be conversion of a bile acid (de- cholic acid), though that itself was lable only in minute quantities. Their mpts were stimulated in 1041 by a our that German aircraft pilots had received injections of adrenal cortex enabling them to fly at 40,000 ft above the ground.

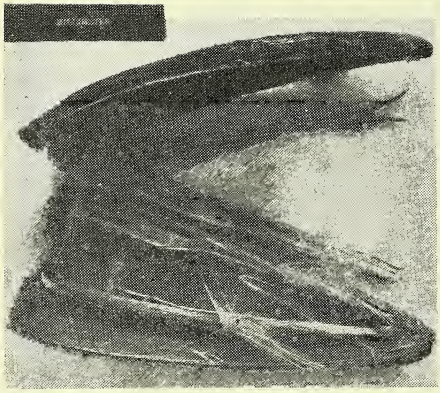
Teams at the laboratories of Merck & Co., Inc., and the Mayo Foundation succeeded in making a small amount of compound A in 1945, but it proved to be of no value in Addison's disease. Other workers had been engaged on compounds B, C, D, and E, and it appeared that the one remaining possibility of obtaining important results lay in synthesising compound E. Dr. L. H. Sarett (of the Merck team) produced a little material, devising in particular an essential step for introducing the hydroxyl group at C_{17}. He was, however, already at that time certain that "a starting material more abundant than bile must be found." The preparation of compound E from bile acids (which involved thirty-seven stages) was described by a colleague as "the most complicated in the pharmaceutical laboratory."

It was chiefly that partially synthesised material that was used in the cases first reported in April by Hench, Kendall, Slocumb and Polley. They treated fourteen patients with "moderately severe rheumatoid arthritis" and found in all cases a clinical improvement within a few days. There was a reduction of stiffness of the muscles and joints, articular aching, pain on motion, and tenderness, and a "significant" improvement of articular and muscular function. The appetite often improved rapidly, the weight and strength of the patient increased, and he experienced a sense of well-being (euphoria) and increased mental capacity. Within a few days those who had found it difficult or impossible to get out of or into bed, to rise from chairs, shave, wash the hair or back of the neck, open doors with one hand, wring a cloth, lift a cup or book, could do those actions more readily or normally The symptoms returned, however, on cessation of treatment, and the workers warned that "much more experience is needed before we shall know how effective or safe is compound E."

In the earlier trials crystals of compound E reduced to 5-10 μ in length were used, as crystals of that size were found most easy to handle and absorb. They were administered intramuscularly as a suspension in saline. Subsequently, compound E acetate was used. It was more easily prepared and less expensive. Following experience on two Addisonian

patients, the dose first tried was 100 mgm. Later, an initial dose of 300 mgm. was used, followed by daily doses of 100 mgm. The daily minimum was found to be 75-100 mgm., which gave an optimum im-





Above: *Seeds of* Strophanthus sarmentosus, *source of sarmentogenin.* Below: *Open fruit (lying horizontally) showing loose seeds.*

provement in seven to fourteen days. To controls, a suspension of cholesterol indistinguishable in appearance from compound E was administered.

Administration of compound E to three patients with acute rheumatic fever, as reported in May, was followed by a "rapid disappearance of fever, tachycardia, polyarthritis, elevated sedimentation rates and abnormal electrocardiographic changes." A warning is given that the patients must be observed for many months before the value of compound E in preventing injury to heart valves or heart muscle in rheumatic fever can be assessed.

In two cases of rheumatoid arthritis Hench and Kendall and colleagues administered intramuscularly 100 mgm. daily of the adreno-corticotrophic hormone of the pituitary gland (A C T and found a similar response to that p duced by compound E. Sedimentat rate decreased even more rapidly, but si effects, such as a sense of exhaustion, tr sient gas pains, heaviness of the chest, a moderately elevated blood pressure, w experienced.

Of the two plant principles so far vealed as possible starting material the partial synthesis of compound botogenin, a steroid sapogenin from yam, *Dioscorea mexicana*—(see illust tion, p. 339) appears to be more reac available, cheaper, and structurally clo to compound E. Its structural similar to Cortisone may been seen by compar the formulæ given on p. 338.

Strophanthus sarmentosus *specimen at the N York Botanical Garden.*

Botogenin was isolated by Marker an Lopez[5] in 1947 from the products of hydr lysis of the sapogenins of the plant. A alcoholic extract of the saponides of th freshly dried plant was hydrolysed wit hydrochloric acid, and the crude sapo genins extracted with ether and then pur

. Two crops of crystalline sapogenins e obtained. A quantity of two kilos of crystals was refluxed with acetic anride, and the mixture allowed to crylise overnight. After purification proes botogenin was finally recrystallised n acetone and methyl alcohol, and nd to have a melting point of 248°C. *Dioscorea mexicana* grows in consider- quantity in Mexico, New Mexico, xas and Arizona and is thus immediately ilable for production of the drug. It be easily cultivated.

The second source material is a cryline aglycone sarmentogenin (a triroxy- $\Delta\beta, \gamma$, -lactone possessing twenty- e carbon atoms and four saturated s). It was identified in the seeds of *phanthus sarmentosus* (see illustrations, 340) by Jacobs and Heidelberger[6] in 9 and was found to be produced by hydrolysis of a glycoside sarmentocyin (of probable formula $C_{30}H_{46}O_8$), ther constituent identified in the seeds. thesis of compound E from sarmentoin involves twenty stages.

trophanthus sarmentosus is a tropical (also illustrated on p. 340) that grows height of 80 ft. or more on the trunks trees in Liberia, Senegambia, Sierra ne, the lower Congo, India, Burma, East Indies and the Philippines. It be propagated from seeds and cuts, and plans have already been made ry to cultivate it in certain American sessions. The plant takes five years to r seed—a fact that will retard produc- from this source. It has been calated that one ton of seeds would be uired to provide the Cortisone requirents of one arthritic patient for one year.

The principle of the synthesis of adrenal tical hormones from desoxycholic acid -hydroxy Δ^{11} -cholenic acid) was debed by McKenzie, McGuckin and Ken, and others[7] in 1946.

The most important sources of the eno-corticotropic hormone (A C T H) far described is the pituitary gland the pig, from which, it has been estited by Armour Laboratories, 60 lb. anally can be produced. That quantity uld be sufficient, however, for only 2,000 4,000 patients.

Among the problems that Kendall and workers had to face, some were pharceutical. One was the difficulty of ucing their few crystals to a sufficiently e size. The problem was finally solved by grinding with glass beads in the presence of a wetting agent. A second problem was sterilisation, as autoclaving rendered the Cortisone suspensions toxic.

Other important potentialities of compound E are that it gives a sense of well-being (and may be of service in the treatment of mental disease) and that it may throw new light on the diseases of old age generally.

References

[1] Hench, Kendall, Slocumb, and Polley, "Proceedings of the Staff Meeting of the Mayo Clinic," April 13, 1949. 24, 181.

[2] Kendall, *et al. Ibid.*, May 25. 277 and 298.

[3] "New York Times," 1949, August 16 and 29.

[4] Kendall, Mason, Hoehn. "Journal of Biological Chemistry," 1938. 124, 459.

[5] Marker and Lopez, "Journal of the American Chemical Association," 1947. 69, 2, 2397.

[6] Jacobs and Heidelberger, "Journal of Biological Chemistry," 1929. 81, 765.

[7] Kendall, and others, *Ibid.*, 1946. 182. March.

C. & D. DISPENSING PRICE LIST

The following price changes, which took place during August, should be noted. The index figure for the month is 172.7.

Cost		Item	Dispensing price		
			4 oz.	1 oz.	1 dr.
d.	*per*		*s. d.*	*s. d.*	*s. d.*
24	lb.	Aluminii sulphas...	0 11	0 3	—
210	lb.	Bismuth. carb. ...	7 7	2 3	0 4
45	lb.	Calcii phosphas (di-acid) ...	1 7	0 6	0 1
19	oz.	Collod. salicylic. co., B.P.C. ...	—	2 3	0 4
132	lb.	Emulsio menthæ piperitæ ...	4 9	1 4	0 2½
52	oz.	Ergota præparata S.I.(5)	—	—	1 3
80	dr.	Ext. cannabis Indica D.D.	per	grain	0 3
420	lb.	Ext. ergotæ liquid. S.I.(5)	15 0	4 2	0 7
456	lb.	Ext. ergotæ liquid. '14. S.I.(5)	16 3	4 6	0 8
42	oz.	Glycine	—	6 4	0 11
96	oz.	Oleoresin. zingib.	—	—	2 3
13	oz.	Ol. anisi	—	1 11	0 3½
144	lb.	Piper alb. pulv. ...	5 2	1 6	0 3
114	dr.	Santoninum ...	per	grain	0 4½
21	oz.	Tinct. ergotæ ammon. ...	—	3 1	0 5½
108	lb.	Tinct. zingib. fort.	3 3	0 11	0 2
51	lb.	Zingib. Afric. pv.	1 10	0 6	0 1
60	lb.	Zingib. Jam pv.	2 2	0 7	0 1

ITALIAN OILS AND PHARMACEUTICALS

(From our Genoa Correspondent)

A LARGE increase in the number of foreign visitors to Italy, and the resulting greater consumption of perfumes of all kinds, has caused activity in the domestic market to be maintained. In addition there are satisfactory exports to certain overseas countries, which so far, however, have not reached pre-war figures. Orders booked are not solely for lemon juice, sweet and bitter orange oils, mandarin, bergamot, mint and lavender oils, but also for other essences, some of which are produced in only limited quantities. This latter trade has induced the Ministry of Foreign Commerce to arrange for specified oils to be imported from countries in the Sterling area without licence, on simple presentation of a bank payment guarantee. Oils brought in under this scheme include Ceylon citronella, lemongrass, palmarosa, patchouli and sandalwood.

Calabrian Essential Oils

In Calabria, bergamot is cultivated only in a restricted area. The essence is extracted from the epidermis of the rind, and from the waste products and small fruits other secondary essences are obtained, besides distillates destined for soap-making or for the production of linalol. From the leaves, oil of petitgrain is distilled. Leaves of bitter orange are also used for distilling petitgrain, and the flowers for producing oil of neroli. From the residual liquids of the bergamots, ethyl alcohol and calcium citrate are obtained. Jasmine, rose, acacia, rose geranium, basil and sage plants are also cultivated for perfumery oils. In Aspromonte district, which is at a higher altitude, there is a lavender distillery.

The "Centre of Studies for Essences" came into operation in 1947. Its chief activities are directed at studying the behaviour of plants of interest to the essential oil industry; the study of the characteristics of essences produced in different zones, various climates and systems of cultivation; and research on improving methods of extraction. Experiments conducted on lavender with modern extraction equipment have brought about considerable developments in the cultivation of the plant in Calabria. Research and experiments on the bergamot plant were restricted by the increasing costs of cultivation and the lower prices obtained recently for the oil. Recent developments include the employment of modern peeling machines, introduced in 1948, and of other means of economising in labour costs.

Present Italian annual needs of essential oils can be summarised as in the following comparison of production and exports:

Product	Italian production *Tons*	Domestic consumption *Tons*	Exports *Tons*
Orange, lemon, bergamot, mandarin oils	600	100	500
Mint oil	40	15	25
Flower essences	2	0.5	1
Various	10	8	2
Synthetic perfumes ...	225	205	20

Drugs and Pharmaceuticals

Sales of drugs are facilitated by large arrivals from the countries of origin and gradually easing prices; the number of the importers and wholesalers has increased. Italian annual consumption, in tons, of drugs and other products, is as follows: Ceylon cinnamon, 0.6; Madagascar cloves, 0.3; nutmeg, 0.1; black pepper, 1.0; Cape aloes, 8.0; cocoa butter, 25.0; eucalyptol, 1.2; eugenol, 1.2; lanolin, anhydrous, 50.0; menthol, natural, 5.0; opium, 10.0; thymol, 1.0; agar, 2.0; ipecacuanha, 2.0; kola nuts, 4.0; valerian, 24.0.

Prior to a strike of the chemical workers the Italian pharmaceutical product industry was operating at full capacity. Since the strike, production has declined. Research continues into the production of new therapeutic products in order to meet competition from foreign manufacturers. The success of newly launched products has not only increased sales at home, but has also resulted in encouraging sales abroad. The yearly consumption and imports of alkaloids are as follows:

Product	Consumption *Tons*	Imports *Tons*
Atropine sulphate ...	0.028	0.028
Caffeine alkaloid ...	3.0	0.500
Quinine sulphate ...	2.5	2.500
Digitaline crystallised ...	0.002	0.002
Ephedrine hydrochloride	0.5	0.500
Eserine salicylate ...	0.004	0.004
Emetine hydrochloride ...	0.06	0.060
Papaverine hydrochloride	0.2	0.200
Pilocarpine hydrochloride	0.015	0.015
Strychnine nitrate ...	0.5	0.500
Theobromine alkaloid ...	1.0	1.0
Veratrine alkaloid ...	0.01	0.01

GUIDE TO NEW MEDICAMENTS

nformation about new proprietary medicaments to be supplied principally on prescrip-ons. Editorial recommendation is not implied. Reprints obtainable on application.

SAVORQUIN

ANUFACTURER: Savory & Moore, Ltd., 61 Welbeck Street, London, W.1.

ESCRIPTION AND FORMULA: 5, 7-diiodo-8-hydroxyquinoline. An amœbicide.

NDICATIONS: In the treatment of amœbiasis or in suspected cases, and for preventing transmission through carriers.

OSAGE: Eight to ten tablets (see below) daily for twenty days. If necessary the course can be repeated. Also given in conjunction with emetine and carbarsone.

OW SUPPLIED: Tablets each containing 0.21 gm. (gr. 3.2) in bottles of 20, 100 and 1,000.

OTES: The preparation was originally introduced in 1946 under the name of Dihaloquin.

RIDDOBRON TABLETS

ANUFACTURER: Riddell Products, Ltd., Axtell House, Warwick Street, London, W.1.

ESCRIPTION AND FORMULA: Tablets, each containing: Isopropyl-adrenaline sulphate, 0.01 gm.; papaverine hydrochloride, 0.0048 gm.; atropine methylnitrate, 0.0002 gm.; base, to 0.5 gm.

NDICATIONS: Asthma, emphysema, hay fever, and allergic conditions of respiration.

OSAGE: One tablet four-hourly, as a preventive. Two immediately on development of attack.

OW SUPPLIED: Bottles containing 20 or 100 tablets.

BENYLIN EXPECTORANT

ANUFACTURER: Parke, Davis & Co., Staines Road, Hounslow, Middlesex.

ESCRIPTION AND FORMULA: A raspberry-flavoured syrup containing in each fluid ounce: Benadryl, 80 mgm.; ammonium chloride, 12 gr.; sodium citrate, 5 gr.; chloroform, 1½ min.; menthol, 1/10 gr.

NDICATIONS: Treatment of coughs and other congestive symptoms associated with colds.

OSAGE: *Adults:* One or two teaspoonfuls every two or three hours. *Children:* Half to one teaspoonful every three hours.

OW SUPPLIED: Bottles of 4, 16, and 80 fl. oz.

OTES: Benadryl is β dimethylaminoethyl benzhydryl ether hydrochloride.

ANACOBIN

ANUFACTURER: The British Drug Houses, Ltd., Graham Street, London, N.1.

ESCRIPTION AND FORMULA: Injection containing 10 μgm. of crystalline vitamin B_{12} in 1 mil normal saline.

NDICATIONS: Pernicious anæmia in patients who have developed hypersensitivity to refined liver extracts.

OSAGE: Depends upon the responsiveness of the patient. It is generally advisable to give 10 μgm. once or twice weekly until there is a distinct improvement in the patient's condition. Thereafter one injection of 10 μgm. weekly may be sufficient. In cases complicated by subacute combined degeneration of the cord, the dose should be not less than 20 μgm. weekly until all remediable symptoms have been eliminated.

OW SUPPLIED: 1-mil ampoules, in boxes of three.

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OL. CLII SEPTEMBER 10, 1949 No. 3629

Our Ninetieth Anniversary

E have pleasure in recalling that ninety ars ago—to be exact, on September 15, 59—the first number of THE CHEMIST D DRUGGIST appeared. In some respects e present position of pharmacists and eir associated manufacturers and wholelers reminds us of the circumstances of that ar. Chemists who had a good dispensing siness were then obliged to distinguish tween the requirements of prescribers dering preparations of the London, Edinrgh and Dublin Pharmacopœias, and to range their stock accordingly. Presenty dispensers are threatened with freent changes in the British Pharmacopœia d with the publication of an Intertional Pharmacopœia which may introce another set of standards. Again, oposals for legislation adversely affecting e trade are before us now, as similarly verse proposals were then. Between e Poisons Bill of 1858 and its successor 1859 came a disaster at Bradford, where enty people lost their lives, and more an 200 became seriously ill, through ting peppermint lozenges containing senic. Although the Bill of 1859 was thdrawn, the possibility of irrational gislation continued to worry chemists till measure of agreement on the sale of isons was reached in 1868.

On pp. 350-57 we record in outline e progress of this journal and the part has taken in many stirring events during e past ninety years. The change during at period from a mainly agricultural to definitely industrial community has been accompanied by many changes in the drug and chemical industries and in pharmacy. We do not profess to foresee the future. As we remarked twenty years ago, the question whether there is a limit to the sale of personally owned retail businesses to combines, or whether we are within sight of the virtual extinction of individual retail traders, is of far-reaching importance. But whatever changes in trading conditions may come, the principles on which we have endeavoured to build our policy remain. They are the foundation of all good journalism; and they include the orderly presentation of what we know to be wanted by our readers. Journalists have often been reminded that "comment is free but facts are sacred." It may be added that facts are interpreted by experience but that wise journalists never dictate. Our experience is always at the disposal of our friends: we wish them, wherever they are, increasing prosperity.

Hormones from Plant Sources

WHILE it will be prudent to heed the warnings given by Kendell, Hench, and their colleagues (see p. 338) that much more experience with Cortisone (compound E) will be necessary before the value of the drug in arthritic conditions, previously unamenable to treatment, can be assessed, the researches of these workers are important, at least, for opening the door to a possible new avenue of research on chronic degenerative diseases. If the therapeutic value of Cortisone is established, the need for preparing it on a large scale will become urgent, particularly as it appears that the patients have to continue taking the hormone indefinitely. A bile acid, the original starting material for the partial synthesis of the compound, is impracticable as a starting-point for the manufacturing process, if for no other reason than that it has been calculated that some 12,500 tons of beef cattle would be required to supply the bile to make sufficient to treat one patient for one year. Tapping the comparatively plentiful supplies of plant-produced compounds that fairly closely resemble the hormone structurally may well help to bridge the gap between demand and sup-

ply. Before any large-scale attempt is made to cultivate the plant source, a reasonably exhaustive search needs to be made for a more productive alternative plant.

Dangerous Drug Control

THE articles on world production and consumption of narcotics conclude this week with statistics (p. 347) concerning the illicit traffic in Dangerous Drugs. The new data affords for the first time a set of figures based upon Government reports which provide definite clues as to the working of international control under the various Conventions. The necessity of applying the conventions to poppy growing and opium production is confirmed by the extent of the illicit traffic in the Far East, but lack of continuity in governmental action is equally responsible for failure to suppress opium smoking and smuggling. The confiscations in Asia agree with the U.S. contention that the "inevitable result" of over-production of opium is an annual surplus which goes into illicit traffic. By contrast the actual amounts illegally entering the United States are small, but the "fantastically high" prices account for endless attempts at smuggling. It is almost a foregone conclusion that "chop-stick" opium from Iran will be found aboard a vessel from the Persian Gulf. Fifteen to twenty seizures are not infrequent on a single ship, and secretion in the section already searched often necessitates a re-search of that portion. Thus the number of seizures increases but the amounts decrease with the intensity of the campaign against illicit traffic.

The international control of manufactured narcotics has attained a high degree of efficiency as shown by the paucity of seizures. Burgling of drug stores in America is a serious consequence of the resultant shortage of supplies. Nevertheless compliance with international agreements limiting manufacture and consumption to medical needs has greatly reduced addiction to heroin, morphine and cocaine. Extension of the Conventions to the growing of raw materials will undoubtedly be the next step in world control of opium, coca and Indian hemp, which can only be effected by complete co-operation betwen the pr ducing and the consuming Governments.

The British reports (p. 348) exempli the full effect of applying the Conventio These repeat year by year "No difficult in the application of the Conventions" a culminate in 1947 that the illicit suppli to addicts were "nil" in 1947. The ma modifications in "D.D." provisions origi ate in international agreements. The pr secutions reported by the British centr office concern offences specified in Article of the Convention of 1936 (*C. & I* August 13, p. 223). Except for the fa that he is authorised to do so in accor ance with Article 6 of the 1925 Conve tion, the working pharmacist would contravening practically all the provision Two interesting points emerge from exan ination of the two Articles referred t Article 2 of 1936 does not specify "failu to keep drugs in a locked receptacle" an offence—which probably accounts fo the disappearance of that charge in th 187 prosecutions reported by the police i 1947, whereas there were nine suc offences out of sixty prosecutions in 193 Article 6 of 1925 confines manufacture t licensed premises and permission to posse drugs to authorised persons, subject to a quantities made or supplied being entere in their books. Article 6 (*c*) continues:—

> This requirement shall not necessarily appl either to supplies dispensed by medical practi tioners or to sales by duly authorised chemists o medical prescriptions, provided in each case tha the medical prescriptions are filed and preserve by the medical practitioner or chemist.

The interest is that the British D.D. regu lations go beyond the conditions of th Conventions, and the two offences whic link the chemist with the drug addict an dope smuggler are those not contemplate in these international agreements. The in convenience of unlocking the D.D. cup board every time "Lotio plumbi c. opio" is dispensed is a nuisance, but condemna tion as a criminal for failure to replace the bottle or re-lock the cupboard is fa removed from the category of illicit traffic. The increasing stringency of storage and registration provisions would appear to call for removal of such offences from the stigma of police court proceedings.

POISON LAW, 1935-49

6. Illicit Drug Traffic

HE main object of the international co-eration on narcotic drugs is the suppres-n of illicit traffic and for this purpose e central offices of all countries should tercommunicate details of offences, pro-cutions and seizures. That "snowball" ocedure has evidently proved beyond the pacity of many Governments, and in 48 the individual reports were replaced bi-monthly summaries issued by the mmission on Narcotic Drugs. The first these, dated April 14, 1948, contains a Statistical Table" showing the seizures of ugs reported in 1946. It provides for the st time an indication of the extent, and guide to the course, of the illicit traffic narcotics. The figures in Table I relate

TABLE I

WORLD DANGEROUS DRUG SEIZURES IN 1946

ntinent and ountry	Raw Opium	Pre-pared Opium	Mor-phine	Dia-mor-phine	Co-caine	Indian Hemp
rope ..	41	35	29.2	5.35	18.2	169
rance	10	—	1.7	0.85	3.0	—
ermany	25	—	15.4	0.5	13.3	—
.K. ..	4	35	—	—	—	2.3
ugo-lavia ..	—	—	12.1	5.00	—	—
urkey	—	—	—	—	1.4	166.3
ia ..	13085	3656	2.5	1.55	1.5	252
hina ..	2845	657	4.5	9.3	—	—
ran ..	521	2959	—	—	—	—
apan ..	8129	—	1.8	0.6	1.5	—
alestine	544	—	—	—	—	—
inga-ore ..	880	37	—	—	—	85
rica ..	6	—	—	—	—	12488
Union of outh frica ..	—	—	—	—	—	12345
erica ..	90	128	1.7	9.43	0.8	812
anada	1	—	0.1	0.53	—	—
Mexico	37	—	—	—	—	161
.S.A.	48	128	1.4	8.89	0.8	637
eania ..	21	25	—	—	—	—
ustralia	21	19	—	—	—	—
New Zealand	—	6	—	—	—	—

kilos and comprise the data of prime gnificance reported in 1946. The figures re probably far from complete as regards pium and Indian hemp. Later summaries ow seizures of many kilos of Shan opium nd Karen cannabis as a result of the re-uscitation of Government action in Burma gainst smuggling from China and Karen.

The continued seizures of large amounts f opium (raw and prepared) confirm the view that the demand by Asian addicts is the mainstay of opium smuggling. The confiscations in China and Japan reflect the enforcement of the prohibition of opium smoking in those countries. Chaos in internal affairs prevents complete co-operation in Malay and Indo-China, which remain "black-spot" centres for illicit opium traffic. In 1948, a single seizure at Singapore amounted to 501 kilos of raw opium emanating from Bangkok. Elsewhere than in Asia the amounts smuggled are relatively small and represent supplies conveyed by seamen for alien addicts or drugs hidden for own use. Examination of the reports reveals that the traffic, large or small, follows definite routes. Thus a "rummage" of a tanker from Abadan usually discloses a supply of Iran opium secreted by a fireman or other seaman. Such practice facilitates search by competent authorities, and accounts for the bulk of small seizures of opium taking place in Liverpool and New York. China, Jugo-Slavia and Italy were pre-war bases for smuggling opium into the United States, but the cutting off of supplies led to these countries being supplanted by Great Britain, Iran, India and Mexico. Indeed, British ships are blamed for continuation of the traffic whereas the total product of seizures for the year in the U.K. and U.S.A. is less than that of a single one in the Far East. Success in suppression is in inverse proportion to the amounts of drug appropriated, and on this basis Great Britain leads the way in counteracting the illicit traffic in drugs

Gangster Methods

Seizures at Kantara and Ismalia reflect the smuggling of opium and cannabis from Palestine into Egypt. High prices limit addiction to the moneyed classes, the fellahins no longer being able to indulge their predilection. The subterfuges of smugglers in ships are endless. The favourite in land transport is the use of false bottoms in motor-trucks to hide large quantities. New devices include opium concealed in duck-egg shells (Burma) and in zinc cylinders swallowed by camels (Egypt). Gangster methods are reported from America. At Calexico, California, Mexicans smuggling prepared opium across the Border riddled the Customs motor-car with bullets and later killed the Chief of Police on suspicion as an informer.

U.K. Control

"No change, no difficulties and no forged certificates" summarise the state of control of international trade in this country. The British reports for 1936 and 1947 exemplify the extent to which the overall control of narcotics can be effected. The Pharmacy and Poisons Act, 1933, together with the Poisons Rules, 1935, came into operation on May 1, 1936. The 1936 Report states that this "replaced all existing legislation relating to the sale, supply, storage and transport of poisons" but "made no substantial alteration in the law relating to the sale and supply of Dangerous Drugs." Despite the eleven years' interval, the two reports are mainly repetitive in form and character. Thus under "Administration" the following is identical in both reports, viz.:—

1. (*a*) No modifications in the administrative arrangements for the execution of the Conventions were made during the year.
   (*b*) No special development took place during the year in the organisation and working of the special administration charged with the application of the Conventions and the control of the trade in dangerous drugs.
   (*c*) No difficulties were encountered in the application of the Conventions.

Under sub-paragraph 2, the 1936 report states that "Addiction to narcotic drugs is not prevalent in the United Kingdom."

TABLE II
EXTENT OF ADDICTION (U.K.)

Number of addicts ..	1936	1944	1947	Population in 1947
Men.. ..	313	285	164	48,534,300
Women ..	303	274	219	
Doctors ..	137	87	82	76,292
Dentists ..	3	2	1	15,266
Veterinary surgeons ..	2	1	1	4,548
Pharmacists	5	3	3	25,306

In the the 1947 report, the corresponding statement connects prosecutions directly with offences under the Conventions. This reads: "While, as shown in past years, drug addiction does not present a serious problem in the United Kingdom, very strict supervision continues to be exercised for ensuring that steps are taken to prosecute persons guilty of offences specified in Article 2 of the Convention of 1936."

The list of offences (*C. & D.*, August p. 223) does not include failing to ke Dangerous Drugs in a locked recepta and the 1947 report differs from that 1936 in not including such default amo the prosecutions reported by the police the later year.

Heroin and Marihuana

Brown heroin and marihuana originati in Mexico are also smuggled into Californ and Texas and thence to traffickers in N York and Montreal. The intensity of t demand for these narcotics increases wi the shortage in supply. In Canada a lar proportion of the drugs used by addicts obtained by burgling drug stores and h pitals. In 1944 there were 230 successf thefts and eighty unsuccessful attempts steal narcotics. The underworld price 20 dollars per grain makes such activiti "more remunerative, and possibly le risky, than robbing a bank." Thefts fro licit shipments constitute the most serio leakages, one in 1947 amounting to 11 kilos of Jugo-Slav morphine. The strai to which the trafficker is reduced, an the extent to which he is prepared to g are illustrated by the discovery in Athe of an illicit laboratory for acetylising mo phine into heroin. The danger from syn thetic narcotics is real because of th rapidity with which the panderer exploi such alternatives. Incidentally the abu of barbiturates as alternatives is likely t be brought forward as a matter for inte national control. The campaign agains illicit opium continues in spite of the dis unity prevailing in the Far East, whic augurs well for complete suppression wit the ending of civil strife.

The illicit traffic consists of the unlaw ful import of opium and Indian hemp b alien seamen. Opium remains almost ex clusively the drug of the Chinese smuggle and smoker. The seizures of opium (80.5 kilos) in 1947 were some eight times thos of 1936. This increase was partly due t the result of increased vigilance, bu mainly to attempts to supply the transient colony of Chinese seamen in Liverpool which carries on a constant trade in that drug especially to New York. Only four of the thirty-five seizures in 1947 exceeded 10 lb., and these totalled only 119 lb. (50.4 kilos)—a very small fraction of world illicit supplies.

The traffic in Indian hemp originates with Indian, Arab or negro seamen and extends by way of the dock areas to the

'est End of London. Organised traffic is ılikely, the drug being peddled by ıloured men in clubs frequented by negro eatrical performers. Several such traf- ckers were convicted in 1947.

orged Prescriptions

The use of forged prescriptions is a traffic" in the sense that collectively the ses "show a common intent to defeat e objects of the law relating to the con- ol of narcotics." In 1947 there were enty such cases, half of these concern- g pethidine. The forgeries included the udest attempts at copying a doctor's signature; the use of stolen notepaper; the alteration of quantities prescribed; and finally the complete creation of a false address and telephone number (with accomplice to confirm "genuineness" of forgery). An even more ingenious fraud involved the use of forged certificates to persuade physicians to issue genuine prescriptions for heroin and cocaine. The rôle of pharmacy in this aspect of addiction is described in the entry "NIL" in respect of the number of addicts who obtained supplies from illicit sources. Table II (p. 348) indicates the diminishing extent of addiction experienced in the U.K.

NEW BOOKS

Tablet Making.—Arthur Little and K. . Mitchell. 8 in. x 5½ in. Pp. 121. 15s. orthern Publishing Co., Ltd., 37 Victoria reet, Liverpool, 1. The book sets out in etail stages in producing tablets and de- ribes the plant and equipment in use day. There are forty-one illustrations ıd a number of formulas.

A Class Book of Physical Chemistry Second edition).—7¼ in x 5 in. Pp. 454. . 6d. Macmillan & Co., Ltd., St. Mar- n's Street, London, W.C.2. New sections ı activity, coefficients and colloidal elec- olytes have been added, and the nomen- ature used in the sections on elementary ermodynamics has been altered to con- rm with modern usage.

A Survey of the British Pharmacopœia, 948.—8¼ in. x 5½ in. Pp. 79. 5s. 6d. harmaceutical Press, 17 Bloomsbury quare, London, W.C.1. Reprints of lec- ıres on the British Pharmacopœia 1948, ven at meetings of the Pharmaceutical ociety in 1948 by members of the Phar- acopœia Commission and other authori- es, with other relevant material added by e lecturers.

A New Dictionary of Chemistry.—Ste- hen Miall, LL.D., B.Sc., and L. Macken- e Miall, B.A., F.R.I.C. Second edition. in. x 6 in. Pp. 589. 60s. Longmans, reen & Co., Ltd., 6 Clifford Street, Lon- on, W.1. The two editors have been ssisted in the revision by many other che- ists (a list of contributors is given). In articular, a number of entries on drugs nd some biographical paragraphs have een re-written and many new biographies dded. Atomic energy is dealt with in a umber of new articles. The dictionary rovides a compact reference work.

Practical Pharmaceutical Chemistry (Seventh Edition).—F. N. Appleyard and C. G. Lyons. 7½ in. x 5 in. Pp. 172. 10s. 6d. Sir Isaac Pitman & Sons, Ltd., Parker Street, London, W.C.2. The text has been revised in accordance with the British Pharmacopœia, 1948, and the work presents an up-to-date systematic course in practical pharmaceutical chemistry corresponding to the standard of the Chemist and Druggist Qualifying examination of the Pharmaceutical Society. Exercises are given in volumetric, gasometric, and gravimetric analyses. The preparation of certain organic compounds is described and a scheme for qualitative organic analysis is developed.

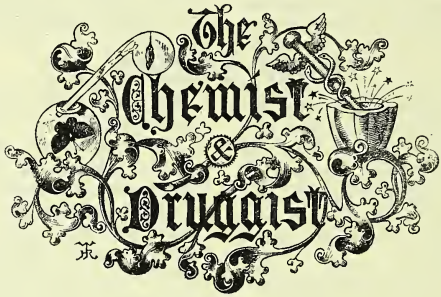
SALARIES AWARD FOR HOSPITAL PHARMACISTS

THE Industrial Court has considered the evidence and submissions of the staff and management sides of the Health Services (Great Britain) Pharmaceutical Whitley Council and has awarded that (hospital) pharmacists shall receive a salary scale of £425 rising in annual increments of £25 to £525 per annum and that chief pharmacists shall receive a scale rising to a maximum of £825 p.a., the maximum to be exclusive of the special allowances offered by the management side of the Council for chief pharmacists in medical teaching hospitals. Scales for senior assistant pharmacist, deputy chief pharmacist and chief pharmacist-in-charge are left to be negotiated betwen the parties. Persons holding a higher qualification (at present B.Pharm., Ph.C., or A.R.I.C.) are to receive a special allowance of £25 per annum in addition to their salary.

The 1859 · CHEMIST AND DRUGGIST · 1949

A proud record of ninety years of publication

THE year 1859, in which THE CHEMIST AND DRUGGIST was founded, has by this time acquired a "period" value. Mention of the twenty-third year of Queen Victoria's reign arouses in some minds only a vague notion of crinolines and stove-pipe hats. In reality it was a year of memorable activity—in public affairs, science and literature. The conclusion of the Crimean War was followed by a scare over "the supposed ill intentions of Napoleon III," resulting in the formation of Volunteer corps. In the House of Commons the Home Secretary introduced a Sale of Poisons Bill, a modification of Bills presented in 1857 and 1858: it was ultimately withdrawn. In the same year appeared Tennyson's "Idylls of the King," George Eliot's "Adam Bede," and J. S. Mills' essay "On Liberty." Darwin gave science a contribution of the highest importance in "The Origin of Species." Thackeray and Dickens were delighting their admirers with fiction published serially. Carlyle was busy with "Friedrich II," and Herbert Spencer with "Education," a book translated into many languages. Browning, then in middle life, was little known outside a small circle. In commerce, expansion was multiform. Railways were supplanting roads and canals as highways; hansom cabs and buses appeared in the streets; ships were increasingly built iron or steel and propelled by stea Outdoor pastimes, from mountaineering croquet, were becoming general. The and other factors contributed to a life much interest ar variety. In h "English Social Hi tory" Dr. G. M Trevelyan writes the England of th nineteenth century "The world is n likely to see again s fine and broad culture for man centuries to come.



A MONTHLY TRADE CIRCULAR.

VOLUME I. 1859—60.

PUBLISHED FOR THE PROPRIETOR, BY JAMES FIRTH, AT

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Title page of first volume (page size 8 x 5 in.).

Previous Journals

Pharmaceutica publications, some o them short-lived had been launche in various countries a few were still cur rent. According t Eugène Guitard, the first periodical i Europe to give defi nite attention t pharmacy was the "Journal des Çavans," established in Paris in 1565. In London, the "Philosophical Transactions" of the Royal Society included, from 1663 onward, descriptions of drugs and monographs of the kind represented by Grew's "discourse" on emulsions. By the year 1700, publications of a similar kind had been established in most European countries. Early in the nineteenth century France led the way with magazines dealing more specifically with pharmacy; the most important of them was the "Journal de Pharmacie et de Chimie," founded in 1809 as the "Bulletin de Pharmacie." The "American Journal of Pharmacy" began

s long career in 1825 as the Journal of he Philadelphia College of Pharmacy. everal early-nineteenth-century journals ncluding pharmacy among their subjects ere reviewed in an article in our issue of ugust 24, 1946. Here, as elsewhere in his narrative, we prefer to summarise ather than to catalogue: it will therefore uffice to mention that of the six journals hen described only one has survived.

ound Policy

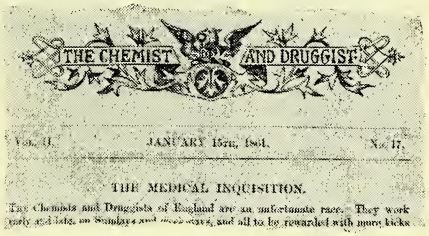
An excellent account of the contents of ur first number, that of September 15, 859, is given by Mr. E. C. Cripps on p. 57 of this issue. We need only supplement his description by pointing out that he lines on which the paper was established were the expression of a sound olicy. The first page and a half of the ctavo's literary contents consisted of a eading article which was also a manifesto etting forth the general plan of Messrs. Morgan Brothers, the proprietors, and of heir editor. After requesting the indulgence usually accorded to those making first appearance, the Editor continued:

> "Class journals are a necessity of the times in which we live . . . It is necessary nowadays not only to possess a greater amount of information than our ancestors, but also to turn it to better account; and it is quite impossible to derive *special* information from *general* publications: hence the utility of a literature which collects, as it were, into one focus the requirements of its constituents, and enables them to gain possession of the necessary information with the *least possible expenditure of time.*"

This robust pronouncement, a contrast to the turgid phraseology familiar to students of mid-Victorian journalism, strikes a confident note. Confidence has been amply justified. Expansion in size of issue was soon required. By the end of the first year the sixteen literary pages of Volume I No. 1 had given place to thirty-two; in January 1864 octavo size was superseded by quarto, a gain equivalent to about four octavo pages. The new pages were gradually increased to a monthly average of sixty-four, and in 1886 a change from monthly to weekly publication was made. Occasionally the number of pages in a half-yearly volume has exceeded a thousand. The distinctive cover was adopted in 1873. By 1886 our circulation had extended to nearly all parts of the world.

New Features

With this growth in size—checked during the past few years only by restrictions on supplies of paper—came the introduction of new features. Some of these features were unknown in British journalism till THE CHEMIST AND DRUGGIST launched them. It is amusing to recall, after so many years, that our Trade Report aroused hostility at first in some quarters, and that a few years after it began to


THE CHEMIST AND DRUGGIST

JANUARY 15TH, 1861.

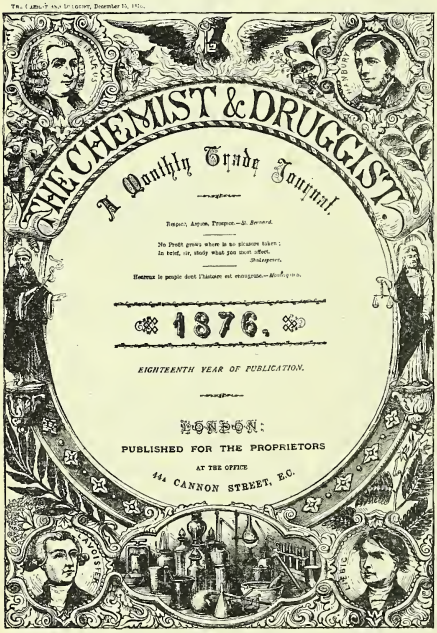
THE MEDICAL INQUISITION.

Heading of first text page, 1861.

appear we deemed it desirable to ask our subscribers whether they wished it discontinued. The reply was emphatically in the negative; the Report was not again threatened. From "The Chemist and Druggist Almanack," first presented to subscribers in December 1860, grew by stages the present *Diary and Year Book.* Early issues of the Almanack contained articles by authors of the rank of Daniel Hanbury, John Attfield and W. A. Tilden. From 1903, when the decision in the case of Farmer versus Glyn-Jones secured an exemption from medicine-stamp duty, the *Diary* was recognised by the administrative authority as an approved book of reference under the Medicines Stamp Acts till those Acts were repealed by the Pharmacy and Medicines Act of 1941. In January 1868 the Editor inaugurated the "Corner for Students," a means of testing chemical knowledge used by many assistants and apprentices. Portraits, sketches and cartoons made their appearance at an early date. In February 1870 the then president of the Pharmaceutical Society, Mr. H. Sugden Evans, was the subject of a whole-page lithographed portrait; and many readers will remember the humorous sketches of Mr. Fred Reynolds, which began in 1883 and continued till his death in 1907. The weekly Coloured Supplement first appeared in its present form in 1886: it has since been extensively copied in trade journalism. For the past sixty-three

years it has been regarded as an indispensable medium for supplying a multitude of business wants.

Special issues began in a tentative form on September 15, 1871, when less than two columns was allotted to the kind of information that has since filled about thirty quarto pages in our annual Educational Number. While the *C. & D.* was still a monthly periodical, the custom arose of giving more prominence to the January and July issues than to the others; and when the change to weekly publication took place, the last issues of those two months were reserved for special features. Owing to shortage of paper, this practice was in abeyance during the wars of 1914-18 and 1939-45. Between those periods we decided to concentrate on one Annual Special Issue, availing ourselves at the same time of modern improvements in printing. Covers specially designed for these numbers began with the Special Issue for the summer of 1897. A recent development is the seasonal appearance of issues planned to promote trade in such departments as perfumery, photographic apparatus and veterinary requisites.



Title page of 1876 volume.

Textbooks

In a sense, all the textbooks in THE CHEMIST AND DRUGGIST series grew out of articles in the weekly issues of the paper or the annual volumes of its *Diary*, other sources being called upon as occasion required. The first of the series, "The Art of Dispensing," which appeared in 1888, was the outcome of contributions to our *Diaries* for the years 1880 and 1885. While the second of those articles was being prepared, proofs were submitted to twelve pharmacists in various parts of the country, and their annotations were incorporated, with acknowledgements, in the text. This collaboration occasionally resulted in opposing views being expressed: for instance, a remark on potassium acetate as an ingredient in pills was followed by "Certainly not. T.G." in square brackets. Our older readers will recognise the initials as those of Thomas Greenish, a former president of the Pharmaceutical Society; among his colleagues on this distinguished jury were A. W. Gerrard, Joseph Ince, Thomas Maben, Peter MacEwan, William Martindale and Barnard S. Proctor. When Mr. MacEwan rearranged the articles to form the book, these differences were reconciled.

At brief intervals came "Veterinary Counter Practice," "Pharmaceutical Formulas," "Diseases and Remedies," "The Chemist's Dictionary of Medical Terms" and other manuals. A note on "Pharmaceutical Formulas" may be of interest. The first edition, published in 1898, was compiled on the basis of replies to correspondents in search of formulas. In the preface the laborious task of selecting "the best of the replies in fifty volumes" was mentioned. Formulas from pharmacopœias, unofficial formularies and other sources were selected for inclusion in each edition. All were scrutinised; any found to be unworkable, unsafe or wrongly described were rejected. When the tenth edition was being prepared in 1929, the number of serviceable formulas had become so large that the work was divided into two volumes. The eleventh edition of Part One, comprising formulas for pharmaceutical use, appeared in 1943.

Staff and Contributors

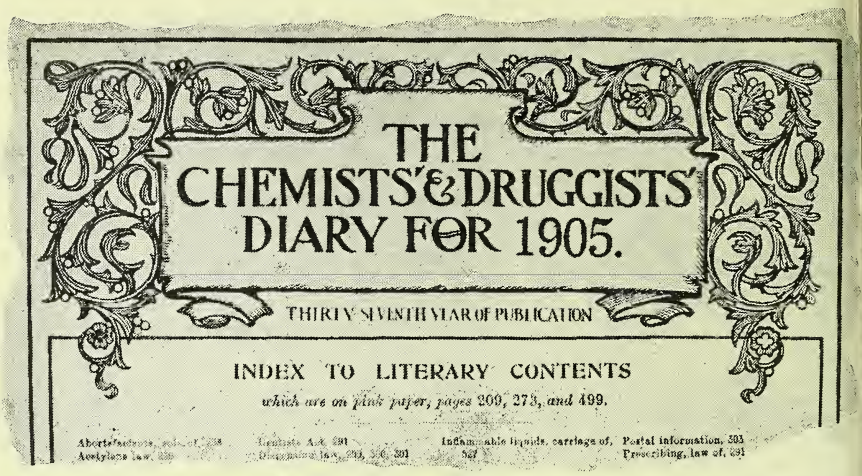
Continuity of policy has been a main factor in ensuring the success of Messrs. Morgan Brothers' publications. Their many industrial and social connections gave them from the outset a choice of experts

1865: *A redrawing of the title design of the paper.*

or contributing special articles. Thus it ame about that such experienced writers s John Hollingshead, C. W. Quin, G. L. M. Strauss and Lionel Brough were en- sted as collaborators for dealing with xhibitions, factory production and so orth. Lionel Brough's brother John Car- ill Brough became the first salaried Editor f THE CHEMIST AND DRUGGIST. When, n 1870, failing health compelled him to esign, Mr. Alfred Charles Wootton, al- eady a member of the staff, was appointed is successor. During his twenty-nine ears' editorship Mr. Wootton introduced everal popular features. Among them vere the dispatch and scrutiny of 10,000 oting papers in 1886 to obtain opinions n a Shop Hours Bill then before Parlia- nent; a little later he organised an nalysis of 10,000 prescriptions. A few veeks after retiring he wrote the first of he weekly "Observations and Reflections," ow entitled "Topical Reflections." The resent month marks the jubilee of this eature. His editorial successor was Mr. MacEwan, who, as an examination of our ssues during the present century shows, oon felt the increasing pressure on space aused by the changing circumstances, otably the advent of the first National Health Insurance Act and the war of 1914-18. As we remarked on a previous occasion, our cramming of a quart of con- ents into a pint pot of space has often een followed by a similar operation with a Winchester quart of contents. Since Mr. MacEwan's death the tenure of the editor- al chair has been shorter: he has been ollowed by Mr. S. W. Woolley, Mr. G. P. Forrester, Mr. A. St. Clair Geddes, Dr. E. G. Bryant, and the present editor, Mr. O. F. C. Bromfield.

The first publisher of the paper was Mr. James Firth. In 1866 he was transferred to the staff of "The Ironmonger"; then for a few years Mr. W. Canning and Mr. A. C. Wootton jointly carried out the duties of publisher. Mr. Henry Walker followed from 1870 to 1919, his total period of service in the offices amounting to fifty-six years. From 1919 to 1936 Mr. William Chalmers was the publisher; on his retirement he was succeeded by Mr. John R. Goldthorpe. To add to this record the names of all our principal contributors would almost be equivalent to indexing a history of British pharmacy during the past ninety years. Some are mentioned elsewhere in this selective narrative. One name that readily comes to mind is that of Michael Carteighe, president of the Pharmaceutical Society of Great Britain for fourteen years. It is on record that having written an editorial article for the *C. & D.* before he reached that position, he found that new facts had come to light; he thereupon destroyed his "copy," and set forth a different opinion.

Continuity of policy has been associated, as is fitting, with continuous growth. Our first issue contained an announcement of the removal of the proprietors from Jewin Crescent to the corner of Cannon Street and Bow Lane. When, eight years later, their building was acquired for the purposes of a new underground railway, they took the premises at 42 Cannon Street, familiar throughout the world as their headquarters for more than sixty years. In 1919 the firm was converted into a private limited liability company; ten years afterwards a new company was formed by amalgamation with the proprietors of "The Engineer" (founded in 1856), and


THE
CHEMISTS' & DRUGGISTS'
DIARY FOR 1905.

THIRTY-SEVENTH YEAR OF PUBLICATION

INDEX TO LITERARY CONTENTS

which are on pink paper, pages 209, 273, and 499.

The Diary, a perennial service to subscribers, is now in its eighty-first year.

in 1930 these two journals and "The Ironmonger" (senior by a few months to THE CHEMIST AND DRUGGIST) were removed to the present address, 28 Essex Street, W.C.2. Three more publications have been added recently: "The Chemist and Druggist Export Review," "Kemp's Engineers' Year Book," and "Electronic Engineering."

Guidance for Reformers

From the first our editorial aim has been to promote the welfare of chemists, with special reference to their needs as a trading community. In 1859 long hours, low prices and threats of adverse legislation were perturbing chemists in business. As was pointed out in our Jubilee Number in 1909, the Pharmaceutical Society of the period was not attracting young chemists; its leaders, we remarked, "were elderly men, well off, and not at all disposed to champion the aspirations of the rank and file of the retail drug trade." Publicity for a group of chemists who desired a practical outcome of the widespread dissatisfaction was readily accorded: in August 1860, an editorial article in the *C. & D.* focused the suggestions made, and formulated a "preliminary prospectus" of an organisation to be known as the United Society of Chemists and Druggists. The project was taken up; offices and a secretary were secured; and the proprietors of this journal were among the donors of substantial sums. The Executive worked hard to secure the exemption of all chemists and druggists in business from jury-service when a Juries Bill was before Parliament in 1862. As is well known the exemption was limited to practising pharmaceutical chemists.

A stiffer task awaited the Society. The withdrawn Sale of Poisons Bill already mentioned was followed in 1863 by the draft of a Bill, compiled by a committee of the General Medical Council, designed among other things, to bring pharmaceutical education, examination and practice under the control of the Council. The leaders of the United Society realised that its failure to secure the desired exemption from jury-service was chiefly, if not entirely, due to the undefined position in law of chemists and druggists. The position, it was believed, was likely to become worse because the Pharmaceutical Society gave a qualified approval to the proposals of the G.M.C. Committee. It appeared to the United Society that the real remedy was to secure the incorporation and registration of all practising chemists and druggists. During 1864 two Bills were drafted, one by each society, at that time in rivalry. On March 29, 1865, both Bills were read a second time in the House of Commons and were referred to a Select Committee. This Committee, after hearing evidence, recommended that the Bills should be shelved, and that the Government should bring in a Bill for dealing with the subject. Ultimately the

Government gave facilities for an unofficial Bill to pass, and this became the Pharmacy Act of 1868. Its work ended, the United Society faded out.

Trading and Professional Interests

Without overlooking the predominance of trading interests, this journal has never failed to allot a fair proportion of space to scientific discovery and investigation. The International Exhibition of 1862, for instance, was the occasion for a series of articles in which the scientific value of certain exhibits was shown in relation to the enterprise of manufacturers. From its inauguration in 1863 the British Pharmaceutical Conference has been consistently supported by us, even in years when the early enthusiasm manifested in certain quarters seemed to have died down. The chief event in pharmacy in the 'seventies was the formation of the Chemists' and Druggists' Association of Great Britain. This body was an outcome of the working of the Sale of Food and Drugs Act of 1875, which produced a harassing series of charges of adulteration. During 1876 Mr. (later Sir) Thomas Barclay of Birmingham called a meeting in that city to consider what could be done to protect the chemists' trade, wholesale and retail, against captious prosecution. The association, with Birmingham as its headquarters, did excellent work for several years; it negotiated with the Board of Inland Revenue regarding medicine-stamp duty, and assisted in the defence of Mr. Shepperley of Nottingham when he was charged, in a well-known case, with having contravened the Apothecaries Act of 1815.

Company Chemists

The judgment of the House of Lords in 1880 conferring legality on limited liability companies trading as chemists caused consternation in pharmaceutical circles, no such possibility having been envisaged by the promoters of the Pharmacy Acts of 1852 and 1868. This case, in which in the first instance the Pharmaceutical Society sued the London and Provincial Supply Association, Ltd., in Bloomsbury County Court, went through the Court of Queen's Bench and the Court of Appeal before reaching the highest tribunal. The Lord Chancellor held that in the Act of 1868 the Legislature had in view only "natural" persons, and that consequently corporations could legally carry on the business of a chemist and druggist. Lord Blackburn added that there could be no sale of a poison, whether a corporation was the ultimate vendor or not, unless a "natural" person managed the sale, and any such person, if unqualified, would be liable to a penalty. We advised the Council of the Pharmaceutical Society to draft a Bill for amending the 1868 Act in the interest of pharmacists. After much delay two successive Bills were prepared; but they failed to satisfy their critics. When the second Bill was withdrawn, an article in the *C. & D.* described an imaginary inquest on it: the jury's verdict was that "the deceased was of such insignificance that it was not worth while to charge anybody with its death."

A few events stand out on looking back at the 'nineties. One is the attempt of the veterinary profession in 1893 to monopolise the title "veterinary chemist," an attempt which THE CHEMIST AND DRUGGIST was largely instrumental in defeating. Another is the formation of two societies, the Proprietary Articles Trade Association and the Chemists' Defence Association, by Sir (then Mr.) William Glyn-Jones. Early in 1896 he launched the "Anti-Cutting Record" and called a meeting of manufacturers, wholesalers and retailers to discuss his scheme for ending the calamitous cutting of proprietary articles then existing. This remarkable venture was admirably described by Mr. William Johnston in our issue of March 16, 1946. From the first Mr. Glyn-Jones, Mr. Johnston and their associates were encouraged and supported by the Editor of this journal; his practical advice helped to put the P.A.T.A. on a firm footing. Three years later the Chemists' Defence Association was formed, and the enthusiastic founder soon collected more than £1,000 for the Drug Trade Appeal Fund. These triumphs were crowned in 1903 by the successful result in the case of Farmer versus Glyn-Jones, already referred to. The benefit of this case to chemists in business was shown by the large number of formulas sent in for publication in our *Diaries* for the years 1904-30.

National Health Insurance

The Poisons and Pharmacy Act of 1908 need not receive much comment. It carries proof of compromise in more than one section, and reminds those who watched its evolution of the conflicting interests of pharmacy, company trading and agriculture. It was scarcely in operation

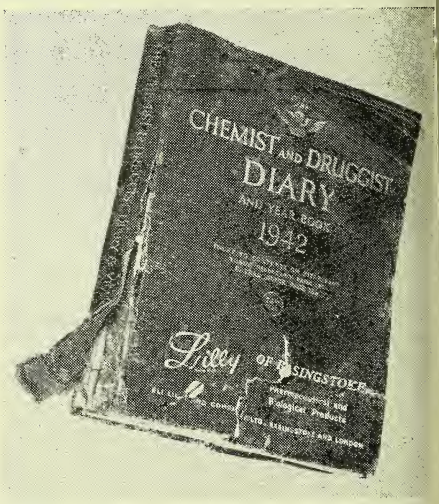
before proposals for a system of national health insurance came into the political field. The progress of the parliamentary Bill for that purpose was followed by us in detail, and no opportunity was lost of urging the right of chemists in business to more consideration than legislators seemed disposed to allow them. The Editor of THE CHEMIST AND DRUGGIST was a member of a deputation that waited on the Chancellor of the Exchequer to explain the position: he directed attention to systems of health insurance then in use on the Continent. As a result Mr. Glyn-Jones, then a member of Parliament, was sent, accompanied by Professor H. G. Greenish, to Germany and Italy to investigate; on his return he championed the claims of British pharmacists with marked effect. The Act received the Royal assent in 1911. Its coming into force increased rather than lessened the need for explaining its terms for panel chemists.

The outbreak of the war of 1914-18 shelved, for practical purposes, the report of the House of Commons Select Committee on Patent Medicines appointed in 1912. The evidence leading up to it was promptly reported by us, and the report was searchingly criticised. During the war, pharmacists were harassed by shortage of supplies and by haggling over terms for National Health Insurance dispensing. The conclusion of the war was followed by an acute controversy about the admission of apothecaries' assistants to the Register of Chemists and Druggists without examination. The formation in 1921 of the National Pharmaceutical Union was fully recorded.

Calls for Vigilance

At this point we reach events fresh in the minds of many, perhaps most, of our readers. In 1925 the Labelling of Poisons Order, 1924, came into force, bringing with it queries that seemed endless; a new Merchandise Marks Act received careful scrutiny; and we collated methods of preparing pharmacopœias in twenty-three countries, a step that had some effect, we believe, in obtaining a more adequate recognition of pharmacy in pharmacopœial revision in this country.

A few other recent events stand out in retrospect. In 1932 the Ottawa agreements and the Import Duties Act made fresh demands on manufacturers and exporters. A new Shops Act was passed in 1934. In the following year the Chemists' Friends scheme was inaugurated by the National Pharmaceutical Union. The war of 1939-45 did not so completely overshadow scientific and organisational activities in pharmacy as might have been expected. Several addenda to the British Pharmacopœia, 1932, and supplements to the British Pharmaceutical Codex, 1934, were published; and monographs presented at meetings of the British Pharmaceutical Conference were not much less numerous than usual. Early in 1944 a White Paper was sent out by the Ministry of Health and the Department of Health for Scotland setting forth a scheme which later took shape as the National Health Service Act of 1946. Regulations for dispensing under the Act came into force on July 5, 1948. Three notable anniversaries have fallen within the past decade. In 1941 the Pharmaceutical Society celebrated its centenary; in spite of war conditions the commemoration was on a fitting scale. In 1946 came the silver jubilee of the National Pharmaceutical Union and the jubilee of the Proprietary Articles Trade Association. Commemorative notices appeared in THE CHEMIST AND DRUGGIST on each of these three occasions. It remains for us to express the hope that ten years hence we shall be able to address our readers in circumstances more favourable to the ideals of journalism that we have always striven to uphold.



A 1942 Diary—almost the only item salvaged from the bomb-destroyed offices at Bath in 1942.

VOL. 1, NO. 1, OF THE C. & D.

by E. C. Cripps

A FRIEND recently sent to me a copy of the first edition of THE CHEMIST AND DRUGGIST, dated September 15, 859. The covers are badly stained and art of the back one is missing, but that not to be wondered at since the book—contains sixty-two pages—was picked off bookseller's barrow in Edinburgh, where o doubt it had been exposed to wind and eather for some time. On the ninetieth nniversary of publication of the volume it opportune to recall that 1859 was a mewhat fateful one for pharmacy as then nderstood. In June of that year Jacob ell passed away and the Pharmaceutical ociety was for a time left leaderless: in e same year the "Pharmaceutical Jourl" became the property of the Pharmaeutical Society, under three editors workg answerable to a supervisory committee.

Trade Journal

THE CHEMIST AND DRUGGIST, "leaving e scientific field in the possession of its resent occupant" claimed that it would spire to be a trade journal and that its onthly issue would, *inter alia,* include Trade Reports, Prices Current and Statics, Reports of Trade Meetings, Lists of nglish and Foreign Patents and Novelties, orrespondence, Gazette, Chronology of e month, and all other matters interestg to the Trade." According to Bell and edwood's "Progress of Pharmacy," the trade" numbered about 16,000 persons mployed in chemists' and druggists' estabishments in England and Wales. Allowing r apprentices and assistants, it was estiated that probably about 6,000 would e the number of those engaged in business n their own account, and of these 2,000 ere members of the Pharmaceutical ociety. 20,000 copies of the first edition f the *C. & D.*, were printed and many ere sent abroad.

The picture the volume gives of pharacy of 1859 is of a calling less organised han it is today. Dispensing formed a small ercentage of the turnover of most chemsts and druggists, who were often compelled to sell all kinds of oddments and idelines if they wished to make a satisfacory living. Even in the 'eighties I gained my first experience of pharmacy in an stablishment where wines and spirits, agricultural manures, paints, etc. were sold and where sheep dipping was carried on—all these in addition to the sale of proprietaries and a fair number of dispensed articles. The sale of toilet articles was negligible. In scanning the advertisements of the 1859 volume it is interesting to come across many articles that are today obsolete or the sale of which by chemists has been discontinued. Rubber tobacco pouches (patent dated April 21, 1858) are featured as something quite new, "replacing tobacco bags"; "Genuine shag and selected bird's eye" tobacco, as there advertised, were sold by me in the 'nineties, when I was asked to keep both kinds. They sold at 4d. per oz., and to light one's pipe the new "safety" matches could be used as there described and the price of which "is very little in advance of the ordinary match, a box of about 100 being retailed for 1½d."! "Patent respirators" were stocked by most chemists in the 'eighties and were worn in foggy or cold weather, with or without a medicament.

What Businesses were Worth

A page is devoted to an advertisement for mincing machines. One wonders why the chemist should be interested in such, until the expression "to aid digestion" is seen; that provides the clue. The machines were recommended for the dinner table, as "they may be screwed on without even injuring the cloth"! A mineral water plant is featured capable of making as many as 180 dozen bottles a day, at a cost of £75. "Power" was supplied by hand, and the services of a bottler and wirer were also required. There is an offer of "two large six-guinea proofs of the Celebrated Eleven of All England," with a note that, as the plate was destroyed, the prints should prove valuable in due course. The difference in the value of money then from today's level is well brought out in a few of the offers of businesses for sale by a firm whose successors are still to be found among the advertisers in THE CHEMIST AND DRUGGIST today. A family and dispensing business in a good market town within about sixty miles of London, at a rent of £60, and returns about £1,600 to be disposed of, is offered, complete with lease, fixtures, fittings, and goodwill, at £1,400. For another one with "Returns £1,000 and a low rent," the entrance is £1,000 guineas.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale qua ties of standard quality. Prices of crude drugs and essential oils vary as to brand or gra

28 Essex Street, W.C.2, Sept. 7

THE demand for PHARMACEUTICAL CHEMICALS continues on routine lines, both for home consumption and for export, with prices generally well maintained. The only reduction noted this week is for POTASSIUM BROMATE, while all grades of ZINC OXIDE have been advanced. The volume of business being transacted in the CRUDE DRUGS markets is a good deal less than would be the case if supplies were available in quantity. Most movements in prices in this section are to higher levels on spot with the respective shipment markets fully supporting these advances. Good quality Canada BALSAM, paper-filtered, crystal clear material, is sharply dearer, while inferior dull quality is at cheaper prices. In the CAMPHOR market, English makers of SUBLIMED FLOWERS (B.P.) have notified a reduction in their scale of prices. The spot and shipment markets for CASCARA SAGRADA continue firm with supplies very restricted here and at the source. It is difficult to locate a sizeable parcel of Portuguese ERGOT on spot; any small lots are firm at recent advances, with practically nothing offered from the source. African GINGER continues firm and the Jamaican variety is quoted dearer. The spot market is practically bare of supplies of IPECACUANHA and licences to import are not being granted. Brazilian MENTHOL continues in quiet demand and unchanged in value. Stocks of good quality Chinese common round RHUBARB have been cleared on spot; only fair to wormy now available. One shipment offer from Hong Kong noted. In the SEEDS market there has been a sharp advance in CORIANDER with the market firm. Other changes in this market are a slight easing in the value of Dutch CARAWAY and a firmer tone in FENNEL and Indian CELERY. Spot prices of SENEGA for the little material still offering are still advancing and there are no shipment offers. In the WAX markets Dar-es-Salaam BEES' is rather easier. Fatty grey CARNAUBA is again dearer and the shipment price for OURICURI is quoted dearer than spot values. The chief feature of the ESSENTIAL OILS markets has been considerable interest in Singapore PATCHOULI. For some time spot values had been in the region of 40s. to 42s. with the shipment value at an equivalent figure. There is now some doubt on the point of quality of a good deal of the spot material, alleged to be due to adulteration with mineral oil. Good quality material on spot today is being held for 48s. per lb. and may go to 50s. There are extremely few offers for shipment with 43s. 6d., c.i.f., subject to confirmation wanted for oil accompanied by certificate of origin.

U.S. Drug and Chemical Repor

New York, Septembe

THE FINE CHEMICAL markets have witnessed a recovery in demand compara to that in industrial chemicals, but tr sources look to an improvement in buying volume with the approach of autumn season. Some strong markets clude LANOLIN and REFINED GLYCERIN, otherwise, there appears to be am material available to meet requireme MERCURY has eased again to $72 a fl for large lots compared with $75 officia previously; small quantities are being fered at $74 a flask. Trade sources that there are still no signs of any stal ising influences in this market. PENICILL production in June fell substantially fr the May total of 11,846,327 units but p ducers report an active demand fr domestic and foreign sources. Nevert less, there are rumours circulating that price reduction may be effected in the ne future. STREPTOMYCIN production in Ju at 7,292,566 grams constituted a 19 monthly record and compared wi 5,486,062 grams produced in May. P duction of SULPHONAMIDES in June declin to 536,632 lb. from 575,895 lb. in Ma There has been little activity on t CRUDE DRUG market and demand has be quiet though there are a number of ite difficult to obtain. Belgian VALERI ROOT has been advancing in price and ferings are now being made by one shipp at 13 cents above the 35 cents per lb. lev of a few days ago. QUINCE SEED is b coming tighter and IPECACUANHA quot tions have been increased substantially fo lowing heavy foreign buying; the insi price of whole root is now $4.70 again $4.50 a week ago. While little activi has been reported from the ESSENTI OILS market, several items remain short supply or are becoming more dif cult to locate. Trade sources are quot as saying that a general firming up prices is anticipated in the near futur LEMONGRASS and CITRONELLA continue i small supply and YLANG YLANG and VET VERT are also not available in sufficie quantities to meet present demands. Pr duction of ISOBUTYL ALCOHOL at Bisho Texas, is announced. It is priced at 12 cents per lb. in tankcars. The demand fo CAUSTIC SODA, SODA ASH and BICHROMATE is improving while in COAL TAR chemical section BENZOL, CRESOL and PHTHALI ANHYDRIDE are moving at a good rate an TOLUOL is said to be difficult to get fo prompt shipment. METHANOL is in greate demand, reflecting the approach of th anti-freeze season, and calls for ACETON have been stepped up with the greater in quiry for CELLULOSE ACETATE.

Pharmaceutical Chemicals

ACETANILIDE. — Quotations for 1-cwt. s in kegs are at 2s. 1d. per lb. for crys- s and 2s. 2d. for powder.

AMMONIUM CARBONATE.— Lump, B.P., 1-ton lots, packed in casks, is quoted at 2 10s. per ton. BICARBONATE, B.P., in on lots, packed in non-returnable drums, quoted at £40 per ton.

ATROPINE. — Steady. Makers' rates per are: ALKALOID, 41s. 3d.; 4 oz., 40s. 9d.; oz., 40s. 3d. SULPHATE, 32s. 9d.; 4 oz., s. 3d.; 25 oz., 31s. 9d.

BARBITONE. — Base and soluble are ered at prices from 42s. to 44s. per lb.

BARIUM SULPHATE (*x*-ray).—Prices are changed, 1 cwt., 1s. 3d. per lb. Sche lule es per lb. (containers in brackets), for antities between 28 lb. and 1 cwt. are follows: 1s. 8d. (1-lb.), 1s. 7d. (2-lb.), . 6½d. (4-lb.), 1s. 5½d. (7-lb.), 1s. 5d. 4-lb.), 1s. 4d. (28-lb.).

BENZOCAINE. — Home-trade prices are changed at from 50s. to 52s. per lb.

BENZYL BENZOATE.—B.P. is quoted from . 3d. to 5s. per lb., as to quantity.

BORIC ACID.—Rates for B.P. grades are changed as follows: Granular, £60 per n; powder, £62; pow ler, extra-fine, £64; ystal, £61. Rates for commercial are: ranular, £48 per ton; powder, £51; pow- r, extra-fine (or crystal), £53. Smaller antities are from 1s. to 5s. per cwt. ore than the foregoing rates. Carriage id (minimum 1-ton lots) in the U.K.

BROMIDES.—Makers rates in the United ingdom and Eire for POTASSIUM, B.P. rystal) and SODIUM, B.P., are as fol- ws:—5 cwt., 2s. 4d.; 1 cwt., 2s. 5d.; lb., 2s. 11½d.; 14 lb., 3s. 2d.; 7 lb., . 3d. per lb. The potassium sa't in wder is 1½d. per lb. more than the fore- ing prices. AMMONIUM, B.P.C., is 1d. er lb. more than the potassium and dium salts. Terms: Prices net. 1-cwt. ses or kegs charged; 28-lb. parcels free; aller containers charge l extra. Schedule antities may be made up of assorted lts down to 28 lb.

BUTYL CHLORAL HYDRATE. — In good pply; prices are from 17s. 6d. per lb.

CAFFEINE.—Makers' prices per lb. are: LKALOID, anhydrous, from 33s. 6d. to 8s. 6d., and B.P., from 31s. 6d. to 6s. 6d.: CITRATE, B.P.C., from 18s. 6d. 23s. 6d.; SODIUM BENZOATE, B.P., from 1s. to 26s.; SODIUM SALICYLATE, B.P.C., om 21s. 9d. to 26s. 9d.; SODIUM IODIDE, om 25s. 6d. to 29s. 6 l. Assorted orders ay be booked with the exception of caf- ine and sodium iodide (theobromine alka- id and salts may be included). Contai- ers: 14-lb. and 28-lb. tins free; other ackages charged extra. Carriage paid on rders of £20 value and over.

CALAMINE. — Quotations for 1-cwt. lots re at 1s. 7½d. per lb.

GLYCEROPHOSPHATES. — Makers' list prices per lb. are as follows: CALCIUM SOLUBLE, 10s. 6d.; IRON SCALE, 11s. 9d.; ACID, 20 per cent. (B.P.C.), 8s. 3d. MAGNESIUM (INSOLUBLE), 10s.; MAGNESIUM (SOLUBLE), 19s. 3d.; MANGANESE, 24s. 3d.; POTASSIUM, 50 per cent., 5s. 11d.; 75 per cent., 7s. 9d.; SODIUM, 10s. 9d.; 50 per cent., 4s. 7d.; 75 per cent., 5s. 8d. Quantities of 7 lb., 6d. per lb. less than above rates; other quantities in proportion.

HYDROQUINONE.—Bulk rates are as follows: 10 cwt., 9s. 6d.; 5 cwt., 9s. 9d.; 1 cwt., 10s.; 28 lb., 11s.; 14 lb., 11s. 3d.; 7 lb., 11s. 6d. per lb. Carriage paid in U.K.

HYPOPHOSPHITES.—Makers' rates per lb. for 7-lb. lots are: AMMONIUM, 9s. 3d.; BARIUM, 6s. 3d.; CALCIUM, 4s. 11d.; IRON, 9s. 4d.; MAGNESIUM, 7s. 9d.; MANGANESE, 8s. 5d.; POTASSIUM, 6s. 1d.; SODIUM, 5s. 7d.

LACTATES. — Current quotations are: CALCIUM, 2s. 2½d. to 2s. 6½d.; CALCIUM SODIUM, 3s. 5d. to 3s. 9d. per lb. LACTIC ACID, B.P., is 3s. 3d. per lb. in carboys, and from 3s. 4½d. to 3s. 10d. in winchesters.

LACTOSE. — Dutch (B.P.) is quoted at 1s. 7d. per lb. for 5-ton lots; 3-tons, 1s. 7¼d.; 1-ton, 1s. 7¾d.; less than one ton, 1s. 8 l., duty paid, ex wharf London. English is from £120 per ton.

MAGNESIUM TRISILICATE (B.P.).—Prices (per lb.) in the home tra le are unchanged. Containers in brackets. 28-lb. to 1 cwt., 4s. 4d. (1-lb.); 4s. 3d. (2-lb.); 4s. 2½d. (4-lb.); 4s. 1½d. (7-lb.); 4s. 1d. (14-lb.); 4s. (28-lb.) per lb. Larger quantities range from 3s. 2d. to 3s. 4d. per lb. in 28-lb. packages, carriage paid.

MANDELIC ACID. — In 28-lb. containers prices are from 12s. 10d. to 14s. 4d. per lb.; in 1-lb. bottles, from 13s. 10d. to 15s. 4d. per lb.

MORPHINE.—Makers' rates per oz. are as follows:—ALKALOID, ½-oz., 63s. 9d.; 1-oz., 61s. 3d.; 2-oz., 59s. 9d.; 3-oz., 59s.; 4-oz., 58s. 9d. HYDROCHLORIDE, ½-oz., 53s. 9d.; 1-oz., 51s. 3d.; 2-oz., 49s. 9d.; 3-oz., 49s.; 4-oz., 48s. 9d. Prices of BIMECONATE and TARTRATE as alkaloid; and ACETATE, HYDROBROMIDE and SULPHATE as hydrochloride.

PILOCARPINE. — Makers' prices are unchanged. Rates per oz. are: ALKALOID.—1 oz., 36s. 9d.; 4 oz., 35s. 3d.; 25 oz., 34s. HYDROCHLORIDE—1 oz., 34s. 9d.; 4 oz., 33s. 3d.; 25 oz., 32s. NITRATE.—1 oz., 33s. 3d.; 4 oz., 31s. 9d.; 25 oz., 30s. 6d.

POTASSIUM PERMANGANATE.—Home-trade rates, for B.P. grade (in 1-cwt. drums), are: 1 cwt., 1s. 7½d. per lb.; 5 cwt., 1s. 6½d.; 1 ton, 1s. 6d. Technical (in 1-cwt. drums) is 163s. per cwt.; 5 cwt., 154s. 6d. per cwt.; 1 ton, 149s. 6d. per cwt. Prices are net; carriage paid nearest railway station; drums extra and returnable.

POTASSIUM BROMATE.—Makers notify a reduction in price, as from September 1, as follows:—One cwt., 5s. 3d.; 56 lb., 5s. 9d.; 28-lb., 6s. 3d.; smaller quantities, up to 6s. 9d. per lb., net. 28-lb. parcels, free, other packages charged extra.

ROCHELLE SALT. — Rates per cwt. for powder or granular salt are: 5 cwt., 130s.; 1 cwt., 132s. 6d. Crystal is 2s. 6d. per cwt. more than the foregoing prices. SEIDLITZ POWDER, ordinary, is now 103s. 9d. per cwt.; extra strong, 111s. 6d. per cwt.; double strength, 116s. per cwt.

SALICYLIC ACID.—Steady. Makers' quotations for 1 cwt. are 2s. 2½d. per lb.; scheduled rates per lb. for quantities of 28 lb. and under 1 cwt. (containers in brackets) are: 2s. 10½d. (1-lb.); 2s. 9½d. (2-lb.); 2s. 9d. (4-lb.); 2s. 8d. (7-lb.); 2s. 7½d. (14-lb.); 2s. 6½d. (28-lb.). Net one month.

SALOL, B.P.C. — Current quotations for quantities of 28 lb. to 1 cwt. are from 9s. to 9s. 4d. per lb., according to pack. Prices for larger quantities are from 7s. 6d. to 8s. per lb.

ZINC OXIDE.—All grades have been advanced by £2 6s. 6d. per ton. B.P., £76 16s. 6d. per ton, in 2-ton lots; red seal, £65 16s. 6d.; green seal, £67 6s. 6d.; white seal, £68 6s. 6d. per ton, delivered in U.K.

Crude Drugs

AGAR. — Market continues dull. Kobé strip from 13s. 6d. to 15s. per lb., according to quality. South African powder, in tins in cases, 18s. 3d. per lb., spot. No licences to import being issued.

ALOES. — Quiet and unchanged. Prime Cape quoted at 115s. per cwt., spot.; shipment, 105s., c.i.f. Curaçao is available at 175s. per cwt., spot, and Socotrine at 170s.

ANTIMONY.—Metal prices are: 99.6 per cent. regulus, £170 per ton, delivered; 99 per cent., £160; 70 per cent., crude, £130.

ARECA NUTS.—Quiet. Spot quotations are about 56s. 6d. to 57s. 6d. per cwt.

ASAFETIDA. — Quiet. Persian block on spot is offering at prices from £14 10s. to £24 per cwt., as to grade.

BALSAMS.—The price quoted for paper-filtered, clear crystal, Canada, on spot, is fully steady at 15s. 6d. per lb. Lower grade material at cheaper values. Pará *Copaiba*, B.P., 5s. 9d. per lb., spot, San Salvador *Peru*, sellers at 4s. 9d. per lb., duty paid. *Tolu* is quoted at 8s. 6d. per lb., spot; shipment, 7s. 9d., c.i.f.

CAMPHOR.—Quoted values unchanged on the week. Chinese tablets from 7s. 6d. (½-oz.): no offers of ¼-oz.; refined natural powder (B.P.), 6s. 3d. to 6s. 6d.; slabs (2¼-lb.), 7s. 3d. per lb., spot, London, duty paid. English sublimed flowers (B.P.) have been reduced, as follows: One cwt., 5s. 9d.; 28 lb., 6s. 3d.; 7 lb., 7s.; smaller quantities, up to 8s. per lb., 28-lb par free, other packages charged extra. T non-returnable.

CANTHARIDES.—Quiet. Chinese on s is available from about 7s. per lb.

CAPSICUMS. — African on spot is quoted at 107s. 6d. to 150s. per cwt., as quality.

CASCARA SAGRADA. — Market contin firm with the price held at fully 175s. 185s. per cwt. for spot material. Sh ment offers continue at former high ra for 1949 peel. Spot stocks are repor limited.

CASCARILLA. — Quills are quoted 1s. 5d. and siftings at 1s. 3d. per lb., sp

CHERRY BARK.—Thin natural is stea at 1s. 4½d. per lb., duty paid, ex store.

CLOVES.—The spot market for Zanzi is reported firm. Zanzibar, short on sp at 1s. 3¾d.; shipment, 1s. 2¼d., c.i.f. Ma gascar, in bond, 1s. 1¾d.; shipment, S tember-October, 1s. 1d. per lb., c.i.f.

ERGOT.—The spot value for any Por guese available is being well maintained the region of 24s. 6d. to 25s. per lb. Ve few offers from the source. One shipp indicated 24s., c.i.f. America is report to be buying up stocks.

GINGER.—Market is well maintained the recent advance. African, spot, 255s shipment, 245s. per cwt. Jamaican again dearer on spot with No. 1 abo 250s.; No. 2, 245s., and No. 3 at 240s. p cwt., spot.

GUM ACACIA.—Kordofan cleaned sort spot, quoted at 70s. per cwt.; Septembe October shipment, 66s. per cwt., c.i Bleached No. 1 is offered at 132s. 6d. p cwt., spot. Talha, 47s. per cwt., spo shipment, 10s. c.i f.

HENBANE.—B.P. herb (*niger*) on sp 4s. 3d. per lb. Egyptian (*muticus*) at orig is quoted at 95s. per cwt., c.i.f.

IPECACUANHA.—There is little change the position this week. The spot mark is practically bare of stocks of any typ handled by dealers and prices are nomina No licences to import being granted. Th last spot sale reported was a small lot Colombian at 24s. 6d. per lb.

JALAP.—Vera Cruz, spot, 2s. 6d. to 3 per lb. as to test. (10 to 15 per cent. resin Brazilian (13 per cent.) 1s. 6d., spot; 1 per cent. shipment, 2s. 8d. per lb., c.i.f.

MENTHOL.—Market is quiet with value for Brazilian maintained. Quoted at 65 to 66s. per lb., duty paid. Shipment offer are about 63s. 6d., c.i.f. Chinese has bee mentioned at about 90s., c.i.f., with no busi ness reported.

RHUBARB.—Practically all the good qual ity Chinese common round of good fractur has been sold on spot and the materia now available is of fair quality to wormy with values about 5s. 6d. to 6s. 3d., as to grade. Shipment offer from Hong Kong reported.

SEEDS.—ANISE.—Market remains quiet. orus, 150s. per cwt., duty free; Turkish, s. per cwt., in bond, both spot London. RAWAY.—Dutch is easier, Sellers now ting 100s. per cwt., duty paid, spot ndon. CELERY.—Indian is firm at 1s. 2d. lb., spot London, and French, now ding, sold at 1s. 3d. per lb., duty paid. RIANDER. — Market firm and rising. rocco has been practically cleared on t, nominal quotation is about 52s. 6d. 55s. per cwt., duty paid. According to orts from Morocco all stocks of new p have been bought up by local specu- ors and the price now asked for ship- nt is 62s. 6d. per cwt., c.i.f., London. gentine has been in good demand and price for whole seed has advanced to . 6d. per cwt., duty paid. Split seeds worth 40s. per cwt., duty paid, in Lon- n. CUMIN.—Cyprus for shipment has nped from 157s. 6d. to 160s. per cwt., f., London. Spot is quoted at 150s. per t., in London. Morocco in Liverpool is red at 140s. per cwt., in bond, or 150s. cwt., duty paid. No interest shown in lian at 140s. per cwt., spot Liverpool. LL.—Indian is unchanged at 55s. per t., spot London. FENNEL.—Indian firm 67s. 6d. to 70s. per cwt., spot London, cording to quality. FENUGREEK.—No nge. Indian, 57s. 6d. per cwt., spot ndon. Morocco, 52s. 6d. per cwt., duty id, ex store London or Liverpool.

SENEGA.—Any material on spot is now n at 6s. 6d. to 7s. per lb., but supplies pear to be extremely small. No ship- nt offers.

SENNA.—Tinnevelly leaves, spot, No. 1, m 9½d. to 11d. per lb.; No. 2, d. to 8d.; No. 3, 6d. per lb.; Tinnevelly ds, hand-picked, 9d. to 1s. 5d.; manufac- ring, 5d. to 6d. Alexandrian pods, hand- ked, spot, from 4s. 9d. to 5s. 9d. per , nominal; medium grades are 3s. to 4s.

TRAGACANTH.—Market steady and gener- y unchanged. Selected white ribbon, t, is quoted at £90 per cwt.; other white ades, from £40 to £70; pale leaf, £33 to 5; amber flake, £20 to £25; red, £12; gy, about £5 to £9 per cwt.

WAXES. — Dar-es-Salaam BEES' 335s. r cwt., spot; shipment, 327s. 6d., c.i.f. danese, in bond, 305s.; for shipment, 0s. per cwt., c.i.f. Lindi, 330s. per cwt., t; shipment, 320s., c.i.f. Benguela, 5s., in bond, and 325s. per cwt., duty id; for shipment, 275s., c.i.f. CANDE- LLA.—Steady. Spot offers are 320s. per t.; September delivery, 310s. CARNAUBA. Prime yellow is 685s. per cwt., spot; ipment, 660s., c.i.f. Fatty grey on spot is ain firmer at 490s. per cwt., for minimum antities only; for shipment, 460s., c.i.f. ONTAN.—Reibeck is steady at 180s. per t., spot; shipment, 150s., c.i.f. OURI- RI.—99.5 per cent. pure is quoted at 5s. per cwt., spot; for shipment, 460s., .f. SPERMACETI.—2s. 5d. per lb., spot.

Essential and Expressed Oils

ALMOND.—Sweet oil B.P., on spot, is offered at 3s. 6d. to 4s. 6d. per lb. Bitter oil, 27s. 6d. to 60s. per lb., as to grade.

ANISE.—Steady, market quiet. Chinese Star on spot quoted at 7s. 6d. per lb. in drums. Shipment offers of drums at 7s. 9d. c.i.f.

CADE. — Steady. Spanish oil, B.P., on the spot, is offered at from 3s. to 3s. 3d. per lb. upwards.

CAJUPUT.—From 17s. to 19s. per lb. is asked for spot stocks of B.P. grade.

CALAMUS.—Offers of English-distilled are at 150s. per lb.

CAMPHOR.—White oil on spot is quoted at from 2s. 3d. per lb., duty paid; brown oil, from 1s. 9d. per lb., spot, duty paid.

CASSIA.—Fully steady. Quotations are from 16s. 3d. to 16s. 6d. per lb., spot. There are no offers from origin.

CASTOR OIL.—Basic price of pharmaceutical quality is £116 per ton, naked, ex mill, Hull. Prices of unrefined oils are: Firsts, £110; seconds, £103.

CINNAMON.—Steady. B.P. oil, 50s. to 60s. per lb. Bark oil is offered at 12s. per oz. Leaf oil, on the spot, 7s. to 8s. per lb., as to quantity.

CITRONELLA. — Market continues firm. Ceylon in short supply on spot from 5s. 6d. per lb.; Java is a firm market with any spot material at 11s. per lb. A shipment offer at 10s. 3d. per lb., c.i.f., is noted.

CLOVE.—English-distilled bud oil is from 10s. 9d. to 11s. 6d. per lb., according to quantity; imported oil is offered at from 5s. 6d. to 7s.

COPAIBA. — Spot offers are at from 14s. 6d. to 15s. per lb.

CORIANDER. — Steady. English-distilled is quoted at about 260s. to 280s. per lb.

CUBEBS.—Steady. Supplies of English-distilled offered at 50s. per lb.

CUMIN.—Quotations for English-distilled are around 70s. per lb.

NUTMEG.—Prices of English-distilled oil are at 35s. to 37s. 6d. per lb.; second-grade, 25s. per lb.

ORANGE. — West African sweet on the spot is from 7s. 6d. per lb., duty paid, shipment, 5s. 6d., c.i.f. Italian sweet is quoted at from 18s., duty paid; Italian bitter, from 13s., duty paid.

PATCHOULI. — There has been unusual interest in this product and values have jumped sharply with genuine Singapore oil now valued in the region of 48s. to 50s. per lb., spot. Offers from the source are now at 43s. 6d. per lb., c.i.f., subject to confirmation. Material of unknown origin and, possibly, of inferior quality has been available at lower values.

COMING EVENTS

Monday, September 12

Reading Branch, National Pharmaceutical Union, Palmer Hall, Reading, at 7.30 p.m. Annual meeting.

Wednesday, September 14

Harrogate Branch, Pharmaceutical Society. Visit to Johnson & Johnson (Great Britain), Ltd., Gargrave, Skipton, leaving Y.M.C.A., Victoria Avenue, Harrogate, at 2.15 p.m.

Northumberland and Durham Chemists' Golfing Society. Ponteland links, at 2.30 p.m. Competition for Hall, Forster cup, Allen & Hanburys tankard, and four golf balls.

Edinburgh Chemists' Golf Club. New Luffness course. Competition for Duncan, Flockhart tankard and Allen & Hanburys prize.

Thursday, September 15

Bradford Branch, National Pharmaceutical Union, Room 14, Midland Hotel, Bradford, at 7.30 p.m. Special meeting to make new rule, followed at 8 p.m. by annual meeting.

BRITISH PHARMACEUTICAL CONFERENCE, BLACKPOOL

Monday, September 12

3.30 p.m. Winter Gardens (Baronial Hall). Tea.
4.15 p.m. Winter Gardens (Spanish Hall). Opening session. Welcome by mayor.
8 p.m. Casino. Civic reception and dance.

Tuesday, September 13

9.30 a.m. Opera House (foyer). Science session.
1 p.m. Winter Gardens (Spanish Hall). Luncheon.
2 p.m. Stanley Park. Official photograph.
2.30 p.m. Ladies' excursion to Fylde coast.
2.30 p.m. Opera House (foyer). Science session.
4 p.m. Winter Gardens (Baronial Hall). Tea.
4.30 p.m. Opera House (foyer). Science session.
7.30 p.m. Casino. Conference banquet.

Wednesday, September 14

9.30 a.m. Conference excursion to Lake District.
8.45 p.m. Visit to Opera House, Blackpool.

Thursday, September 15

9.30 a.m. Opera house (foyer). Science session.
11 a.m. Winter Gardens (Baronial Hall). Branch Representatives' meeting.
1.15 p.m. Winter Gardens (Spanish Hall). Luncheon.
2.30 p.m. Winter Gardens (Baronial Hall). Branch Representatives' meeting.
4 p.m. Winter Gardens (Spanish Hall). Tea.
7.30 p.m. Casino. Conference ball.

Friday, September 16

9.30 a.m. Opera House (foyer). Symposium session.
1.15 p.m. Winter Gardens (Spanish Hall). Luncheon.
2.15 p.m. Opera House (foyer). Science session.
2.15 p.m. North Shore Golf Club. Competition for Edmund White Golf trophy.
2.15 p.m. Stanley Park. London Bowls Challenge Cup competition.
4 p.m. Winter Gardens (Spanish Hall). Tea.
4.30 p.m. Winter Gardens (Baronial Hall). Closing session.
7.15 p.m. Visit to Tower Circus.
10.5 p.m. Tour of illuminations.

TRADE MARKS

(From the "Trade Marks Journal," August 24)

For industrial chemicals (1).—"Liril" by D. & W. Gibbs, Ltd., London, E.C. 677,195.

For all goods (3).—"Racatone"; Deodor-X Co. of England, Ltd., Liv pool; 676,917.

For cosmetic powder-cases (3).—"M lissa"; by Searchlight Products, Lo don, E.C.2; 677,499.

For pharmaceutical preparations, inse ticides, disinfectants, etc. (5).—"Luck pine"; by Cambrian Chemical Industri Ltd., Carmarthenshire; 670,918.

For pharmaceutical preparations (5).- "Intertrigana"; by Archway Labor tories, Ltd., London, N.16; B672,69 "Burnol"; by Boots Pure Drug C Ltd., Nottingham; 674,629. "Ethnine" by Allen & Hanburys, Ltd., London, E.2 677,289.

For insecticides (5).—"Novasul"; b Plant Protection, Ltd., Yalding; 674,82

For all goods (5).—"Romalin"; b County Perfumery Co., Ltd., Stanmore 675,933. "Ucavit"; by United Chem ists Association, Ltd., Cheltenham 676,609. "Loradorm," "Pirasmon, "Hibitane" and "Mebinox"; by Im perial Chemical (Pharmaceuticals), Ltd Slough; 676,806, 676,811, 676,813 an 677,540. "Racasol" and "Racatone" by Deodor-X Co. of England, Ltd., Liver pool; 676,916 and 676,918.

For antiseptics, disinfectants and surg cal dressings, etc. (5).—"Solucel"; b M. Merica & Co., Ltd., Oldham; 677,186

For spectacles and sun-glasses (9).— "Thurspex"; by Thurgar Bolle (Suc cessors), Ltd., Wellingborough; 677,127.

For hearing aids for the deaf (10).— "Micropak"; by Allen & Hanburys Ltd., London, E.2; B675,403.

(From the "Trade Marks Journal," August 31).

For industrial adhesives (1).—"Monstofix"; by Montgomerie Stobo & Co. Ltd., Glasgow; 666,672.

For all goods (1).—Device of chessman; by Koray, Ltd., Bridgend; 675,131.

For wetting agents (1).—"Deceresol"; by American Cyanamid Co., New York; 675,234.

For perfumes and eau de Cologne (3).— "Picot"; by Picot, Ltd., London, W.6; B662,883.

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PAL CHEMICALS LTD.

PALORIT HOUSE, 11 HARROW RD., LONDON, W.2

PADdington 8261

GALE'S NUTRITIOUS TONI

MORELIX

(Regd.)

ESPECIALLY SUITABLE FOR CHILDREN AND DURING CONVALESCENCE

Contains Liquid Malt, Vitamins A & D, Hypophosphites and Virginian Prune.

DREADNOUGHT BRAND

GALE, BAISS & CO. LTD.,

274/276, ILDERTON ROAD, S.E.15

Did you know?

THE PLEASURES OF THE PICNIC

It's not how *much* you eat it's *what* you eat that brings on indigestion. Acid Stomach, flatulence, pains after meals are quickly relieved by Dr. Jenner's. These pleasant tasting Lozenges have been famous for 150 years for their speedy comforting action. 1/7 & 3/9 from Chemists only.

Savory & Moore Ltd., Lawrence Road, London, N.15

DR. JENNER'S

FOR INDIGESTION

This is one of the advertisements for Dr. Jenner's Absorbent Lozenges planned to appear regularly during the next twelve months in National Media, including the following :—

PUNCH, PICTURE POST, DAILY MAIL, DAILY MIRROR, NEWS OF THE WORLD, SUNDAY DISPATCH, SUNDAY PICTORIAL, SUNDAY GRAPHIC, EMPIRE NEWS, NEWS CHRONICLE, ETC.

Make sure your stocks are adequate to meet demand. Write now for advantageous Bonus Terms

QUALITY ENDURES
TRADE MARK
ESTABLISHED 1794

SAVORY & MOORE LTD
STANDARD WORKS,
LAWRENCE RD., LONDON, N.15

NATIONAL GLASS WORKS (YORK) LTD.

WORKS: FISHERGATE, YORKS.
Telephone: York 3021

Trade Mark

LONDON OFFICE: 105 HATTON GARDEN, E.C.1
Telephone: Holborn 2146

F. SCHUTZE & Co., LTD.
ESTABLISHED 1882
For "MASTER" BRAND SURGICAL TRUSSES
SUSPENSORY BANDAGES
JOCK STRAPS, etc., etc.

PERFUMERY BOTTLE WICKERERS in RAFFIA or SILK, plain or fancy, wide range of designs. Own bottles wickered at moderate cost

Black Bull Works, Market Road
London, N.7

DISPRIN
NEUTRAL SOLUBLE ASPIRIN
Non-acid, non-irritant and palatable

SHOWCARDS
CARTONS & BOXES
PRINTED OR PLAIN
OF EVERY KIND, FOR EVERY PURPOSE
CARTON BOX & PRINTING Co. LTD
BRINKSWAY, STOCKPORT
PHONE:- STO 4700.
DISPLAYS
TRANSPARENT BOXES

WE SPECIALIZE IN
THE MANUFACTURE OF

GALLIC ACID-PYROGALLIC ACID

PURE & TECHNICAL RESUBLIMED, PURE CRYSTAL & TECHNICAL

WHOLESALE & EXPORT ONLY. Enquiries Invited

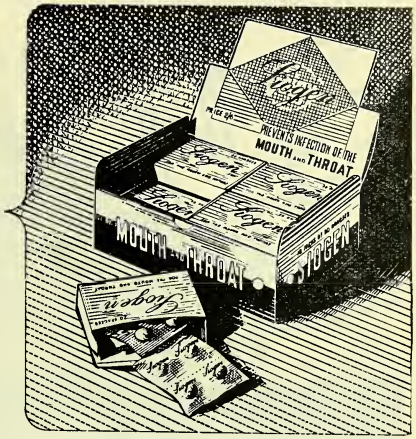
J. L. ROSE, LIMITED, ABBEY ROAD, BARKING, ESSEX

TELEPHONE: RIPPLEWAY 2763 TELEGRAMS: "GALLIC, BARKING."

troducing

SIOGEN"

Dragees



NTISEPTIC FOR THE MOUTH AND THROAT

e active ingredient of "SIOGEN" is 5.7 dichloro-8-droxyquinaldine, 2 mgms, an energetic bactericide and gicide.

effective prophylactic against infection and indicated in treatment of inflammatory conditions of the mouth and arynx, sore throat, tonsillitis, Vincent's infection, thrush, etc.

ckets of 20 dragees — ***Retail Price 2/6 Inc. Tax 16/- per dozen. Plus Tax.***
ch dragee enclosed in cellophane)

ntainers of 100 dragees — ***Retail Price 9/2 Inc. Tax 60/- per dozen. Plus Tax.***

and in Bulk for dispensing

We shall be pleased to send a sample of this preparation for your personal trial.

Geigy

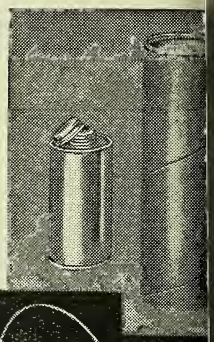
PHARMACEUTICAL LABORATORIES GEIGY LIMITED

National Buildings · Parsonage · Manchester, 3

PH 14

Thinking of Containers...

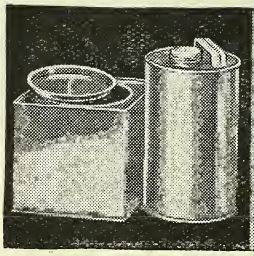
Why not ask us for illustrated leaflets and quotations?

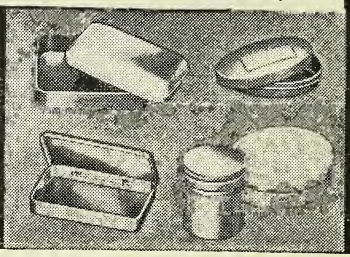


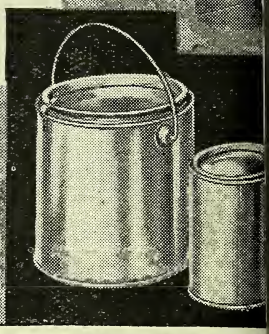
Phone:
HOP 0516
(6 lines)

PERCENTA
THE CONTAINER PEOPLE

Percenta Ltd., Percenta House, 130/2 Tooley Street, London, S.E.1







Surgical & Manicure Specialists Ltd

SHEFFIELD 3: ENGLAND

We manufacture all kinds of:-

SCISSORS · TWEEZERS · FORCEPS · NAIL & MANICURE FILES

In Stainless Steel—Nickel Plated and Chromium over Nick

Our order books are full for some time ahead, and immediate deliveri cannot be promised. We shall, however, welcome your enquiries for forwa deliveries. *(WHOLESALE ONLY SUPPLIE*

BURNSIDE'S EUCALYPTUS OILS

Distilled in Australia by the largest distillers and refiners of Eucalyptus Oils in the world.—W. K. BURNSIDE, PTY., LTD., MELBOURNE, AUSTRALIA

80/85% B.P.	70/75% B.P.
Oil Euc. Dives 40/45%	Piperitone 90/95%
Oil Euc. Citriodora	Oil Euc. Phellandra

.... Phellandrene ....

UNIFORMITY OF QUALITY . CONSISTENCY OF ODOUR

Agents for U.K.: **WILSON & MANSFIELD, LTD., 15 Philpot LANE, LONDON, E.C.3**

Phone : MANSION HOUSE 9264-5-6 **(WHOLESALE ONLY)** *Grams : WYFIELD, LONDON*

LI-LO AIRFLOW

REG. TRADE MARK

ew Styled ot Water ottle

Regd. Design No. 857343

An attractive moulded Hot Water Bottle in high-grade rubber. The handsome ribbed finish is a clever comfort feature too—it absorbs and radiates the maximum amount of heat, yet never becomes excessively hot to the touch. Colours :—Red, Blue and Green.
Each Bottle individually packed in handsome sales compelling carton. A special window or counter display, as illustrated, is included with all orders for 1 doz. bottles.

Nursery Rhyme

KIDDIES' HOT WATER BOTTLE

LI-LO kiddies' moulded Hot Water Bottle. Nursery rhyme and picture embossed on the surface. Seamless. Best quality rubber. In pastel Blue and Pink. Now supplied in colourful transparent wrappers—a new sales appeal for a proven favourite.

These products now available from your usual Wholesaler, or direct from

P. B. COW & COMPANY LTD.

12 Hay Hill, Berkeley Square, London, W.1

Telephone: REGent 7401 (10 lines)

PRESCRIPTIONS RECOMMENDATIONS ADVERTISING

INCREASE THE GROWING NUMBER OF

RHEUMATIC SUFFERERS

WHO USE THE

POLYESTOL BANDAGE

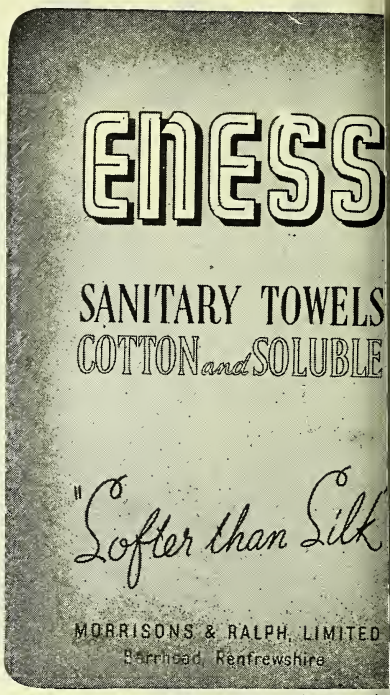
Although it is not free on N.H.S. there is a steady ever growing demand for the Polyestol Bandage. It is frequently prescribed by doctors. Recommendations account for an enormous number of users. National and Provincial advertising introduces it almost daily to rheumatic sufferers throughout the United Kingdom and Ireland. During its 60 hours of potent use it consistently releases in all approximately one third of its weight as Methyl Salicylate Vapour. The excretion of Salicylic Acid in the urine is about ten times that caused by 'rubbing in' Oil of Wintergreen Ointment, or Liniment over a similar area. Its pronounced analgesic action ensures prompt relief even in severe cases. This relief is prolonged; and Salicylic Acid is present in the urine as long as 48 hours and more after the Bandage is removed. Self-securing, it is fastened by simply tucking the end in under its last turn.

Retail selling price is 5/6. Order from your usual wholesalers or write direct to Dept. Z, address below.

POLYESTOL
TRANSPARENT
Pain-Relieving
BANDAGE

Manufacturers and Patentees
POLYESTOL LIMITED
4-5 Warwick Court, High Holborn London, W.C.1

Scientific

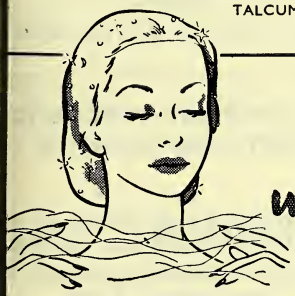


Ready for September 21st?

that day, the good-class cosmetic and perfume de is due for a shot in the arm — Roger & Gallet olish their first full-page, full-colour advertisement Picture Post (over 9½ million readers*), to be lowed by further spaces in that and other important gazines. Little enough time to get your stock d display material; write now to Roger & Gallet ondon) Ltd., Lechmere Road, London, N.W.2. lephone Willesden 2171-2.

* *Hulton Readership Survey, 1949*

EAU DE COLOGNE · LYRE PERFUMES · FACE POWDER · DAY CREAM · NIGHT CREAM
LIPSTICKS · CREAM ROUGE · LIPSALVE DE LUXE · LIQUID AND SOLID BRILLIANTINE
TALCUM POWDER



ROGER & GALLET
CREATIONS
unveil fresh loveliness
—THE KEYNOTE
OF THE NEW ADVERTISING CAMPAIGN

A Quick Turnover

'SLEEK' plastic adhesive strapping is a first-class product which has received an enthusiastic welcome from doctors and nurses. Turnover is quick and supplies are ample. Display it and introduce it to your customers.

We have produced a 'SLEEK' Sales Manual which will tell you and your staff all you want to know about the product. Ask our representative for a copy or send us a postcard.

1" x 5 yard spools . . . **Retail 2/- each**
2" x 5 yard spools . . . **Retail 3/6 each**

Available in flesh colour or white

'Sleek'

TRADE MARK

PLASTIC ADHESIVE

STRAPPING

Herts Pharmaceuticals Ltd., Welwyn Gdn. City, Herts.
Telephone: Wel. Garden 3333 S13

AN ALL COTTON WOOL PRODUCT OF RE

Consolux

(Registered) Patent No. 41

SUPERFINE QUALITY
ALL WOOL SANITARY TOW

LOOPED ENDS
NON-ABSORBENT BAC

WHOLESALE ONLY

ROBERT BAILEY & SON, L
SURGICAL DRESSING MANUFACTURERS
DYSART STREET, GREAT MOOR, STOCK
Phone: GREAT MOOR 3066 Grams: "UNDISPUTED," STOC

Medical Bottle

All Descriptions—
FLATS, VIALS, POISONS, PANELS, JARS and CORKS

HOSPITALS and CHEMISTS
RECEIVE
OUR SPECIAL ATTENTION

QUICK DELIVERY THROUGHOU SOUTHERN COUNTIES

Write:

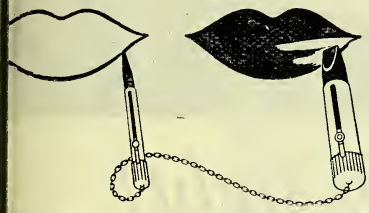
GEO. RICHARDSON MEDICAL BOTTLES LT

802/4 SEVEN SISTERS ROAD, LONDON, N.
Phone: Stamford Hill 7447

o you know the

'REFILL-STORY?'

ya's "THICK" & "THIN" *lipstick refills are the perfect uel to the perfect lip make-up.*



ch refill is enclosed in its own l cup which slides easily into the ick case.

very woman can now replace her lipstick with a refill—without rs, without risk of spoiling the e of the refill, without having to end with the remains of the old ick in the container !

lls for "THICK" (11 m.m.) 3/. including Purchase Tax. Trade e 16/- per dozen, plus Purchase T.

lls for "THIN" (6 m.m.) 2/- uding Purchase Tax. Trade e 9/8d. per dozen, plus Purchase T.

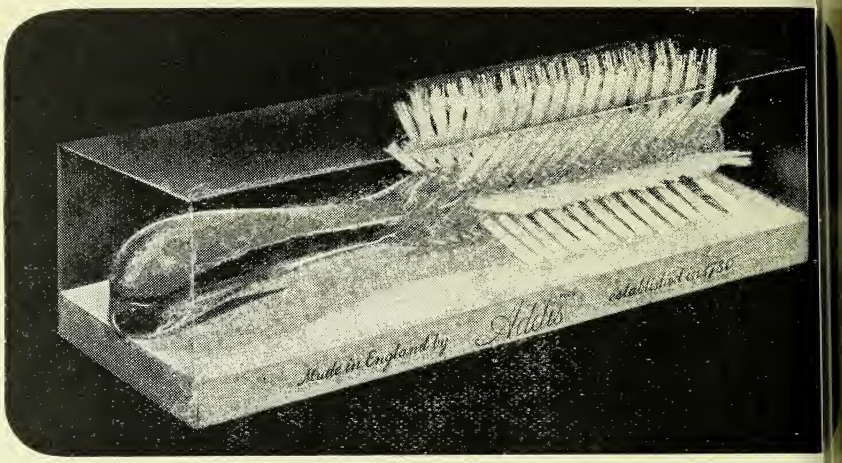
It's so simple to change Goya's "THICK and THIN" refills that they will make good repeat lines, too . . . not only when actual refills are required, but when your customer wants to change her shade of lipstick. With "THICK and THIN" refills in their own cups, a woman can have her own range of Goya lipstick shades and change them when she will.

Whenever you sell a "THICK and THIN" tell your customer the "REFILL-STORY"—sell her refills too !

Goya

Goya Pink, Capri, Seventeen, Cherry, Basque and Petunia, and a new dark shade, Mantilla.

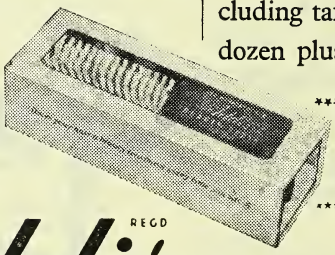
1 1 NEW BOND STREET LONDON W1



It sells on sight!

HERE, at last, is a hairbrush *specially designed to beautify women's hair.* No wonder the new Addis Beauty Brush is selling so fast that production, already doubled, is being still further increased!

As thousands of women have already discovered, the Beauty Brush *brushes deeper than any hairbrush yet invented,* makes even 'difficult' hair look noticeably prettier. This lov new brush has a clear gem-l plastic handle in a choice of th colours — pink, green or blue. A remember—the Addis Beauty Bru is a line that *keeps selling the wh year round* on its sheer sound va for money. Retail price 12/6 (cluding tax); price to you 82/6 p dozen plus tax.



THE BEAUTY BRUSH

in its attractive presentation container

THE NEW

Addis REGD **BEAUTY BRUSH**

ADDIS BEAUTY BRUSHES ARE MADE ONLY BY ADDIS LTD. OF HERTFORD ESTABLISHED 17

hat you
an do!

distribution of welfare foods is driving home to *your* ners, and to the rising generation, the food value of Cod Oil, and the old prejudice is dying rapidly. Thus a new er-widening market is building up. Therefore, SevenSeaS ising, in press, poster and cinema is being increased to ou. The opportunity is there — to-day ! A really striking y at " the point of sale " will turn interest into cash. to-day for special window display material.

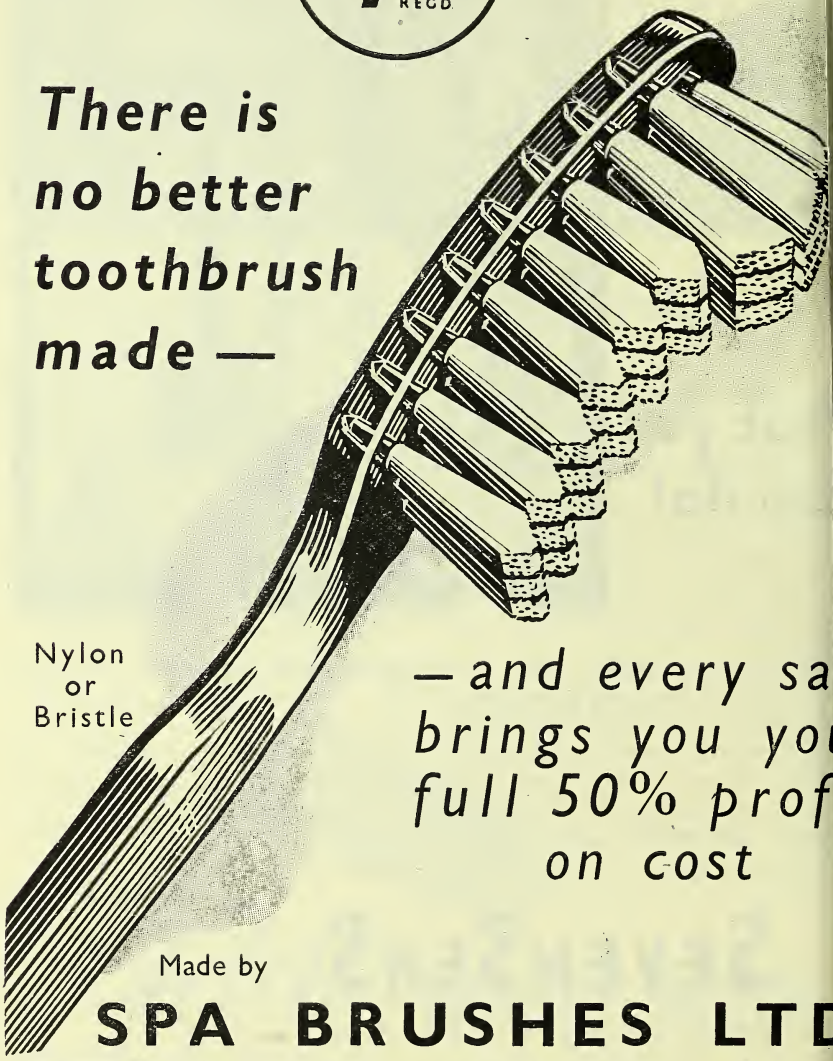
SEVENSEAS

PURE COD LIVER OIL

British Cod Liver Oils (Hull & Grimsby) Ltd., St. Andrew's Dock, Hull

Spa
REGD

There is
no better
toothbrush
made —



Nylon
or
Bristle

— and every sa
brings you you
full 50% prof
on cost

Made by

SPA BRUSHES LTD

FREEMAN WORKS · CHESHAM · BUCK

STRONG

flexible teeth

THIS is the comb with the roundest, strongest, most flexible teeth of all, saw-cut from genuine Vulcanite. Appeals instantly to the discriminating and the value-conscious comb-buyer livelier, stronger, smoother.

Tail comb (top left) 294/7½
Gents Dressing Comb 2287/5
Ladies Dressing Comb 1553/7½

Many other popular lines are available. Send for illustrated list. Order through your wholesaler.

NORTH BRITISH

Vulcanite Combs

BETTER FOR THE HAIR

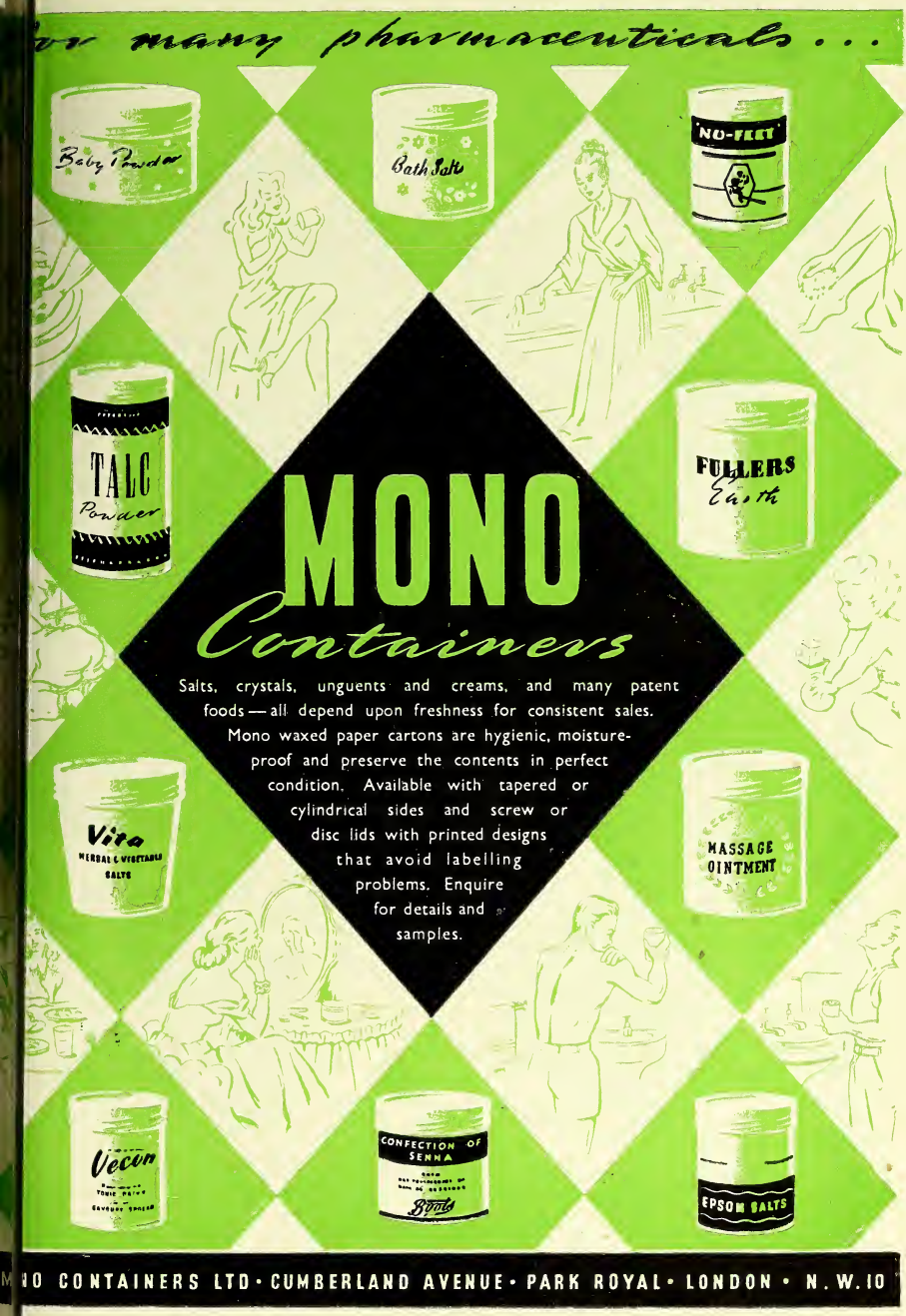
E NORTH BRITISH RUBBER CO. LTD., EDINBURGH, LONDON and BRANCHES.

Infants Feeding Bottles –
Upright & Double-ended

another W product

The double-ended Feeder is supplied spare, or packed in carton with Teat, Valve and Brush, the Upright Feeder, spare only. Our quality and workmanship is unrivalled, having specialised in the production of Feeding Bottles for over 100 years.

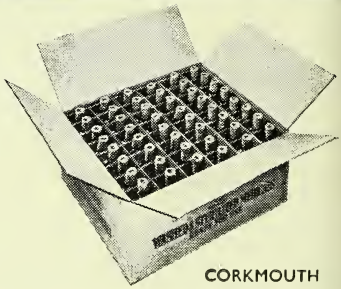
WOOD BROTHERS GLASS CO LTD OF BARNSLEY IN YORKSHIRE


or many pharmaceuticals . . .
Baby Powder
Bath Salts
NO-FEET
TALC
Powder
FULLERS
Earth
MONO
Containers
Salts, crystals, unguents and creams, and many patent foods — all depend upon freshness for consistent sales. Mono waxed paper cartons are hygienic, moisture-proof and preserve the contents in perfect condition. Available with tapered or cylindrical sides and screw or disc lids with printed designs that avoid labelling problems. Enquire for details and samples.
Vita
MASSAGE
OINTMENT
Vecon
CONFECTION OF SENNA
Boots
EPSOM SALTS
NO CONTAINERS LTD · CUMBERLAND AVENUE · PARK ROYAL · LONDON · N.W.10

The Complete Service

WASHED AND STERILIZED READY FOR USE

FITTED KORKALITE, MOULDED OR ALUMINIUM CAPS



CORKMOUTH

UGB

UNITED GLASS BOTTLE MANUFACTURERS LTD.

8 LEICESTER STREET, W.C.2

Tel.: GERRARD 8611 (15 Lines) Grams: UNGLABOMAN, LESQUARE, LONDON

For over 60 years
ibbs Superfatted Cold Cream Soap
has been valued for its
***skin beauty** care . . .*

Now
with the addition of LIRIL to this beauty soap

Astral GIBBS CREAM SOAP opens a new chapter in the care of *SKIN SUPPLENESS*

- **Only Astral contains Liril***
- **Backed by striking national advertising**
- **Attractive profit margins**
- **Elegantly wrapped**
- **Supplies ready to meet your demand**

* Liril is the proprietary name of a newly-perfected brand of ingredient blending 3 elements of special value to the skin.

ll your Gibbs Cold Cream Soap customers about s new development in their favourite toilet soap!

D. & W. GIBBS LIMITED

AS 1062-100

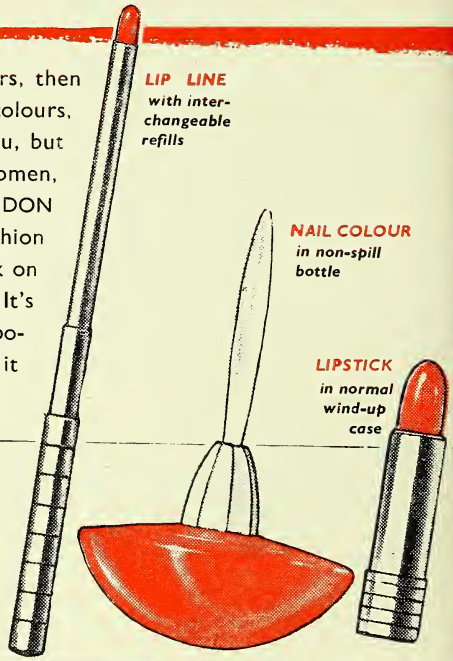
There's 'plenty' in colour matching for YOU!

GALA OF LONDON's

LIP & NAIL COLOURS

for every fashion shade

Matching lip to nail colours, then keying them to clothes colours, may sound frivolous to you, but every day more and more women, persuaded by GALA OF LONDON advertising, cajoled by fashion and beauty editresses, look on colour matching as a 'must.' It's a good, sound business proposition for GALA stockists as it means *multiple sales!*



When customers ask for GALA Lipstick, offer them Nail Colour in the same shade . . . when they ask for Nail Colour, sell them a matching Lipstick or Lip Line. In short, make two GALA sales where you used to make one!

GALA OF LONDON

All enquiries or orders to :

DISTRIBUTORS : **MYRAM PICKER LTD., HOOK RISE, SURBITON, SURREY**

Standard, Tax-free
ISPENSING PACKS
now available

he following H. H. Medical Specialities are now available for pr ription in standard, tax-free, di nsing packs as listed below.

These preparations are obtainable only against prescription by qualified medical and dental practitioners. Literature is available and will gladly be sent on request.

PRODUCT	ORIGINAL PACK
RASTOL i-Asthmatic	Tablets 25 100
IPHOGEL minium roxide Gel.	Bottles 8 fl. ozs. 16 fl. ozs.
THRITONE le Treatment.	Tablets 100 Capsules 50 Massage Cream Jars 2 ozs. 4 ozs.
MAGAL pension of minium, gnesium and nuth Hydroxides.	Bottle 8 fl. ozs.
UCOVITE ic Elixir. amins A & D with cerophosphates.	Bottle 8 fl. ozs.

PRODUCT	ORIGINAL PACK
KREODINE Broncho-Pulmonary Decongestant.	Bottles 4 fl. ozs. 8 fl. ozs.
LECITONE Anabolic Stimulant.	Bottle 8 fl. ozs.
QUINOGEN Antipyretic Analgesic Tablets.	Tablets 25 100
SOMNORAL Tablets and Elixir.	Tablets 25 100 Elixir—Bottles 2 fl. ozs. 4 fl. ozs. 8 fl. ozs.
TERPOIN Anti-Tussive Elixir.	Bottles 4 fl. ozs. 8 fl. ozs.

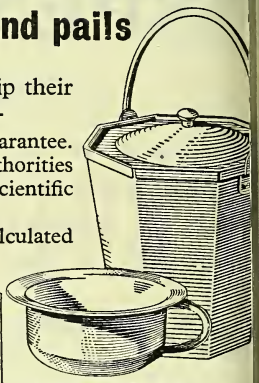
Literature gladly sent on request

HOUGH, HOSEASON & COMPANY LIMITED

ATLAS LABORATORIES · MANCHESTER 19

300,000 first born babie

are going to need baths, "potties" and pails



Yes ! and 300,000 proud new mothers will want to equip their nurseries with Enna Nursery Products. Here's why —

★ All Enna Nursery Products are protected by a 12 months' guarantee.

★ They are in daily use by the Middlesex Hospital Authorities where their practical qualities of lightness, hygiene and scientific design have been thoroughly tested and approved.

★ The full range is available in four lovely pastel shades calculated to enhance the appearance of your shop.

CUT OUT THIS COUPON Please ask your representative to call send further particulars

NAME (IN BLOCK LETTERS) .....

ADDRESS .....

.....

Post in unsealed envelope, 1d. stamp to :—
ENNA NURSERY SPECIALISTS, DEPT. F, BIDEFORD AVE., PERIVALE, MIDDX. TEL: PERIVALE 1155

And don't forget! 300, proud new mothers will Enna Products advert prominently in National Provincial Newspapers Magazines.

TAX PAID STOCKS

CULMAK Shaving Brushes 25/- doz.
BEST NYLON TOOTH BRUSHES 4/6 doz.

Wholesale Enquiries Welcomed

WE
CARRY
COMPREHENSIVE
STOCKS
OF
ALL
CHEMISTS
SUNDRIES
AND SIDELINES

Send for our Post Paid Free C & D Price List

L. FRANKENBERG LTD.
37 HOUNDSDITCH, E.C.3

Mai Dau

COMPLEXION SOAP

3 oz. 8d. 6 c 1/

MADE BY

Comtesse Laboratories Lt

CHATHAM PLACE, LONDON, E.

TELEPHONE AMHERST 564

Are you stocking *both* sizes of Ammi-dent?

Despite the great economy of the large 2/6 size, the growing public interest in this revolutionary toothpowder has produced a demand for a smaller size as well.

Many of your customers will welcome the new 1/6 tin as soon as you put it on show.

If you have not yet received supplies, get in touch with your wholesaler at once.

No dentifrice has ever received such a welcome from the Dental Profession. We have now received well over 12,000 applications for professional samples!

No wonder the demand is growing every day!

DISTRIBUTORS:
Fassett and Johnson, Ltd., 86 Clerkenwell Road, London, E.C.1

AMMI-DENT

The Ammonium Ion Tooth Powder

MADE AND GUARANTEED BY THE

WERNET DENTAL MANUFACTURING CO. (Branch of Stafford Miller Ltd.), WELWYN GARDEN CITY, HERTS.

IMPORTANT ANNOUNCEMENT

BROBAT

Notwithstanding that **BROBAT DISTRIBUTORS LTD.** have ceased to trade

ALL BROBAT PRODUCTS WILL BE SUPPLIED DIRECT TO RETAILERS AND WHOLESALERS BY THE

BROBAT MANUFACTURING CO. LTD.

52 WANDLE BANK, WIMBLEDON, S.W.19

Orders and accounts to

BROBAT MANUFACTURING CO. LTD.

BROBAT BUILDINGS, 241 MAIN ROAD, SIDCUP, KENT

TELEPHONE FOOTS CRAY 1328

PATTINSON'S MAGNESIA

GUARANTEED B.P. QUALITY

Mag. Carb. Levis. **Mag. Carb. Pond.**
Mag. Oxide Levis **Mag. Oxide Pond.**
Mag. Trisilicate.
Mag. Hydrate. **Mist. Mag. Hydrox.**

Supplied through all wholesalers by the sole manufacturers:

The WASHINGTON CHEMICAL CO. LTD.

A MEMBER OF THE TURNER & NEWALL ORGANISATION

WASHINGTON
CO. DURHAM

London Office:
Everite House, 59½, Southwark St., S.E.1
Manchester Office:
15, Pollard St. East, Manchester, 10

Handmaid

protects hands against the dirt of daily work

Samples and prices will be sent gladly on application to the
WESTBROOK LANOLIN Co.
Subsidiary of Woolcombers Ltd.
BRADFORD

A Westbrook PRODUCT

One of the latest Pepsodent Press advertisements

PEPSODENT
ells a straight story

dentifrice can accomplish acles

extent to which a dentifrice can cleanse polish the teeth is the only real measure s usefulness. The power of Pepsodent hpaste to do this job is second to none, for d with the finest polishing agents obtain- is Pepsodent's exclusive Irium (a brand of ially purified sodium alkyl sulphate), one of most effective cleansers known to dental nce.

toothpaste retard tooth decay?

Pepsodent Company holds that a first-class cifrice has one major function in the prevention ooth decay — to keep tooth enamel free from terious film. Laboratory tests over many years proved Irium to be unsurpassed in its power posen surface debris and emulsify mucous film. his is front-line protection, because if tooth mel is preserved from the action of the destruc- bacteria flourishing in film, the life of the teeth be prolonged.

roved product—backed by verful advertising

sodent's straight, sensible, and scientifically *proved* n is making a strong appeal to the public. Sales up all over the country in consequence. To display sodent is to sell Pepsodent! And don't forget, sodent's favourable terms mean generous profits!

FILM ON TEETH CAN BE DANGEROUS

The clinging, dulling film that clouds the whiteness of your smile is *hard to shift*. It is active with acid-forming bacteria that can pit delicate tooth-enamel. If left, film can form damaging tartar that only your dentist can remove. *Mere scrubbing will not deal with it effectively.*

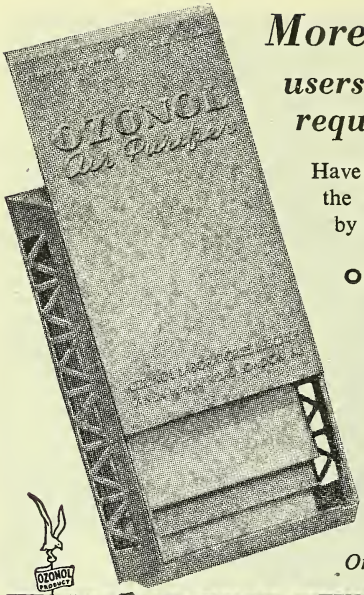
TWO-FOLD ACTION

Pepsodent's exclusive Irium emu sifies and washes away stubbo film, uncovers the clean enam then Pepsodent's wonderf safe, sure, polishing a

HE IRIUM IN *Pepsodent* FIGHTS FILM

Standard Size 1/4 **Double Family Size 2/3**

140F-956-100



More than Half a Milli

users are asking for refills — oth require new Ozonol Cabinets

Have you stocks to meet the ever-increasing demand the regular repeat business which is being stim by first-class National publicity?

OZONOL Air Purifier complete:
Retail—5/10d. Trade—42/- per doz. + P.T.

REFILLS: *Retail—2/- Trade—18/- per doz. TAX*

OZONOL —the popula **AIR PURIFIE** ever since 192

Order from your wholesaler or direct from the manufac

OZONOL LABORATORIES (1930) LTD. New Wharf Rd. LONDON. N.1. TERminus 3727 & 6

AVON TIN
PRINTERS LTD
IMPERIAL WORKS, ST. GEORGE, BRISTOL, 5
GRAMS TINPAX BRISTOL PHONE BRISTOL 57877/8

SURPLUS CHEMICAL FOR DISPOSAL

Bentonite (200 mesh) ...	8 cwt
Caustic Soda (I.C.I.) ...	24 cwt
Caustic Soda Flakes (I.C.I.)	5 cwt
Fischer Tropsh Hydro Carbon	3 cwt
Charcoal	7 cwt
Jelly D	11 cwt
Sodium Carbonate (crystal)	17 cwt
Perfume Oil. B.10101 compound	15 cwts
Dicalite	15 cwts
Glycerine	7 galls
Oil, Light Mineral. 2Ef. ...	1229 galls
Promulsion Wax	56 lbs.
Vioflo	25 galls
Petroleum Wax	1 cwt.
S.C.S.	25 cwts
Kerosene, Pool Odourless	2 tons

First reasonable offer for each item will be accepted.

RICH, 420/4, MONTROSE AVENUE, SLOUGH
Phone Slough 21381

DISPLAYS bring ALL your 'ASPRO' PUBLIC IN!

It is only by **continuous display** that you will discover just how large 'ASPRO' demand is to-day. For the 'ASPRO' public grows ever greater. 'ASPRO' is proof against any "ups and downs" in the market—changes in purchasing power, fashions or habits. The success of 'ASPRO' is reaching unique proportions simply because it is a good product which more than fulfils its claims, and which is well, widely and persistently advertised.

'ASPRO' BAGS—PRICES REDUCED

We are passing on to you the full benefit of the lower production costs of paper bags :—

GREASEPROOF (formerly 9/- per 1,000)
NOW 6/- per 1,000

2-OZ. WHITE (formerly 6/6 per 1,000)
NOW 5/- per 1,000

We suggest you take advantage of this opportunity by ordering now.

AN ELECTRIC CLOCK AT COST PRICE—£3

We are now able to supply you with a precision-made Smith's "Sectric" clock (as illustrated) for use in your shop or window—size 13½" x 10½". It is a quality job, elegant and modern in appearance and an excellent time-keeper. We have had a host of approving comments from the 500 chemists who have already installed these clocks. We urge you to take advantage of the opportunity while supplies are available at this exceptionally low price.

NOTE:—THESE CLOCKS ARE NOT SUITABLE FOR USE ON D.C. MAINS, BUT IN SUCH CASES WE CAN SUPPLY AN 8-DAY SMITH'S LEVER-MOVEMENT CLOCK AT £3 . 15 . 0.

VERY YEAR 'ASPRO' DISPLAYS MAKE BIGGER SALES

A.T.A.

Made in England by ASPRO LIMITED, TRADING ESTATE, Slough, Bucks

'ASPRO' REG. TRADE MARK

Hiltone's advertising

..steps out
to step up sales

This year the famous slogan "As light as you like . . . and no lighter" will be seen by millions of women — press advertising will be bigger-than-ever. Country-wide demonstrations will show how Hiltone brings glamour to the hair by brightening and lightening it — yet leaves it so natural-looking. This means bigger sales for you. So stock Hiltone, display it — you'll sell it.

HILTONE

AS LIGHT AS YOU LIKE . . . AND NO LIGHTER

COUNTY PERFUMERY CO. LTD., STANMORE, MIDDLESEX

royds H.T.L

PRECIPITATED
CALCIUM CARBONATE
STURGE

A FINE CHEMICAL
FOR INDUSTRIAL USE

★

JOHN & E. STURGE LTD
BIRMINGHAM 15, ENGLAND

Here is why millions are changing to PEARS Gloria SHAMPOO

SELLS AT 1/10½, 1/3

DIFFERENT! This liquid shampoo made by Pears contains the remarkable brand of ingredient *Olestol* — Gloria shampoo washes hair radiantly clean *without* making it brittle, dry and hard to arrange.

That is why, once your customers try Gloria, they become regular users — and recommend it to their friends. Large Gloria advertisements in the national press and striking full-colour pages in leading periodicals mean an increasing demand for Pears Gloria. Be ready!

YOU CAN SAFELY RECOMMEND GLORIA SHAMPOO TO ALL YOUR CUSTOMERS

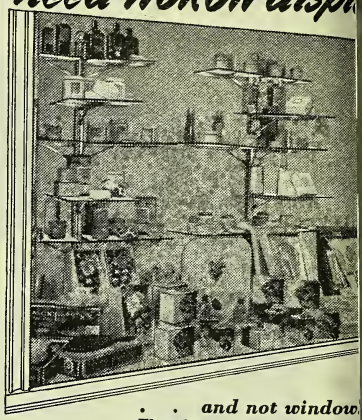
It is right for every type and colour of hair — blonde, brunette or redhead. In fact, it's good for the whole family.

Sell Gloria — the Shampoo that is in more demand every day!

A. & F. PEARS LTD., ISLEWORTH, MIDDX.

POT 7/923/80

Windows To-day need HOKON displ



. . *and not window*

The gleaming chromium of H play Fittings, with their glisteni glass shelves, instantly to varying heights and re-arr are an investment which wil big dividends in goodwill and service.

Let us send you fullest par these, the latest development Fittings.

HOKON

CHURCH & CO (Fittin
16 The Oracle Minster St.

URICURE TABLE
"SPECIAL" BACK & KIDNEY
"MANOIDS" OCCASIONAL P
ASPIRIN TABLETS

THE ACTON PILL & TABLET Co. Lt
ASH VALE, ALDERSHOT
(and all Sundries Houses)

INDIA

Introduce lines, arrang royalty man ture, fix agents, intensify dist tion, maintain DIRECT touch country's (also Pakistan, and Cey best journal for retailers, wi salers, importers: CHEMIST A DRUGSTORE NEWS.

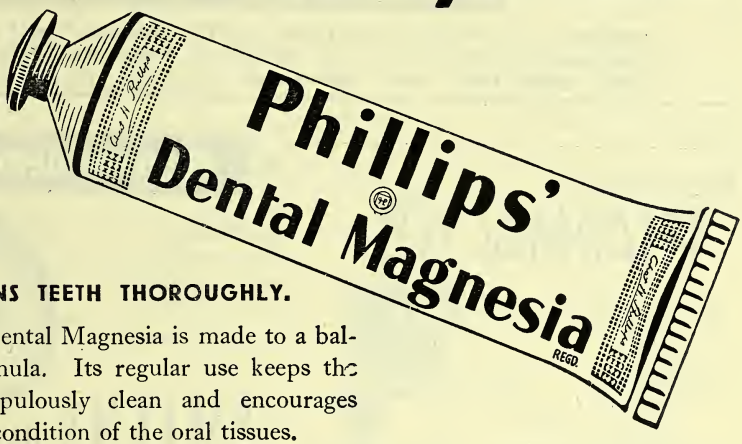
Copy, details free.

31 Hamam St., Bombay, I

You can recommend — with complete assurance

ONE *Toothpaste*

o serve **TWO** *Purposes*



1 CLEANS TEETH THOROUGHLY.

illips' Dental Magnesia is made to a bal-ced formula. Its regular use keeps the eth scrupulously clean and encourages ealthy condition of the oral tissues.

2 COMBATS MOUTH ACIDITY.

Phillips' Dental Magnesia is the only tooth-paste containing 'Milk of Magnesia'* which is widely recognized as the most effective medium for controlling oral acidity.

CHAS. H. PHILLIPS CHEMICAL CO. LTD., 179, ACTON VALE, LONDON, W.3

** 'Milk of Magnesia' is the trade mark of Phillips' preparation of magnesia.*

NOW IN FULL SUPPL

THERE is no further need for us to ration chemists' supplies of **Radian** β—the liniment with a difference—because restrictions on essential materials have eased. You can now order your supplies of **Radian** β and be sure of prompt delivery. If you have not done so already, send for the attractive "sell-on-sight" display material and particulars of our extremely generous trade terms.

★ **Brings pain-easing ASPIRIN direct to bruise or sprain—swiftly relieves rheumatic aches and joint pains—is non-oily and non-staining—makes an effective inhalant and alleviates insect bites immediately and effectively.**

Radian β can now be supplied in bulk (1 lb. size and 5 lb. Winchesters) for dispensing purposes, free of purchase tax.

Professional sample and literature on request.

RADIAN β

A PRODUCT OF

THE RADIOL COMPANY

78, UPPER RICHMOND RD, LONDON. S.W.15.

Distributor for Midland area: **JOHN KNOX (Stoke-on-Trent) LTD.**
Distributor for S. Western area: **J. R. GIBBS Ltd., Manor Ave., Paignton**
Other areas from Local Wholesalers or direct from London.

North-East

PHARMACISTS

Your enquiries are Invited for :-

DRUGS
GALENICALS
PILLS AND TABLETS
CHEMICAL AND
ANALYTICAL REAGENTS
ALSO
LABORATORY APPARATUS

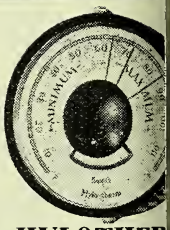
Speedy delivery in our own vans wherever possible

MIDDLETON & Co. LTD

BOUNDARY RD. MIDDLESBROUGH
Wholesale Only Tel 3207

✳ Meet the demand

MAXIMUM
AND MINIMUM
TEMPERATURES
RECORDED
OVER ANY PERIOD WITH A



SMITHS HYLOTHER

Smiths 'Hylotherms', by the makers of famous S 'Sectric' Clocks, offer your customers a constant safe against damaging temperature variations. Supersede old-type Thermometers. Accurate balancing and p locking of pointers ensure absolute reliability and button makes resetting instantaneous. Strong rus weather-proof cases. Gimbal bracket supplied for wall-

Price 4

TV.471 Popular priced desk, table or mantel thermometer with moulded ivory finish case and gilt bezel - Price 1

SMITHS BAROMETERS BAROTHERMS AND THERMOMET

SMITHS ENGLISH CLOCKS LTD., LONDON,
The Clock & Watch Division of S. Smith & Sons (Englan

'ROCHE' NEWS IN BRIEF

Chemists' Display Material

nists are reminded that display mater- assist in the promotion of sales of the wing well-known 'Roche' preparations ailable:

-'Redoxon' 'Redoxon' 'Protovite'
-'Thiocol' 'Navigan' 'Revitone'

ulphonamides and Hæmorrhage

as been observed that phthalylsulpha- ole administered in therapeutic doses d an increase in the bleeding and ng time. The administration of vita- K reduced this effect and it is recom- led that all patients receiving the drug or post-operatively should, at the same be given vitamin K. "Surg. Gynec. t." 1948, *88*, 201.

Neonatal Hæmorrhage

administration of vitamin K either to mother or to the infant at birth is sted as a means of preventing neo- hæmorrhage. Because of the difficulty dging whether, in any given case, is likely to be severe hypoprothrom- mia the administration of the vitamin d be a routing procedure. Another n for treatment is to prevent a sub- hæmatoma from slowly accumulating causing convulsions at a later stage. t. med. J. 1948, *ii*, 987.

. It is reasonable to take such thera- c steps as may be possible to counter fall of the prothrombin which nonly occurs and there is evidence by such action the incidence of bleed- during the neonatal period is lessened. e the wisdom of administering vitamin the mother if labour is likely to be rmal or the baby likely to be im- re." Ministry of Health Reports on ic Health and Medical Subjects, No. 949.

'Synkavit' Vitamin K presents a water-soluble analogue for subcutaneous, intramuscular or intravenous injection in ampoules of 10 mg., in boxes of 6 and 50; tablets of 10 mg. in bottles of 20, 100 and 500.

Safety of 'Prostigmin' Pregnancy Test

As a result of a study undertaken with 'Prostigmin' it was determined that (*a*) it can safely be given to non-bleeding pregnant patients and (*b*) the drug does not interfere with normal gestation. The test was carried out on 70 patients in various stages of pregnancy ranging from the seventh week to delivery, each patient receiving intramuscular injections of 'Prostigmin.' The dosage was 1 mg. per day on three successive days in 20 cases; the remainder, in three groups of varying stages of pregnancy, was given 0.5 mg. 'Prostigmin' every three hours for six doses. (*Amer. J. Obstet. Gynec.* 1949, 57, 586). ('Prostigmin' ampoules, 0.5 mg., are issued in packings of 6 and 50. Note 'Prostigmin' is neostigmine bromide or methysulphate.

Analgesic and Antispasmodic

Pethidine 'Roche'

Ideal for use in Labour

Advantages claimed are safety; lack of toxic effects; simplicity of administration.

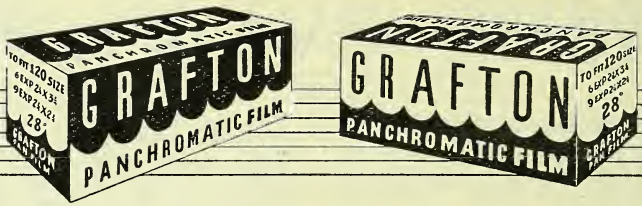
Tablets and Ampoules of two sizes

Also **Pethidine—Scopolamine 'Roche'**

Further information on request

HE PRODUCTS LIMITED · WELWYN GARDEN CITY · HERTS

Scottish Depot: 665 Great Western Road, Glasgow, W. 2



GRAFTON films

An entirely new name in the sphere of quality films. A new base, a new emulsion. Panchromatic; anti-halation backed; 28 Sch. Please do not confuse our product with re-rolls or adaptions.

To provide proof of our claims we will supply sample dozen lots upon receipt of 26/6d. or with tax declaration, 15/6d.
This offer is open to recognised dealers and chemists only with a guarantee to refund cash if not satisfied.

SIX EXPOSURES

Price '20' sizes £9 6s. od. per gross plus tax £6 12s. od.
Price '127' sizes £7 16s. od. per gross plus tax £5 12s. od.
Terms :—Cash with order, pro forma invoice or C.O.D.

We regret to announce that we are unable, at the moment, to accept any new customers for our D. & P. service.

Enquiries to:

JONES & BAILEY LTD

66/72 BREWERY ROAD, LONDON, N.7
Telephone: NORth 2533 Telegrams: Certito, Holway, London

THE ORIGINAL
"WILSON"

DISPENSING SKILLETS

DUST PROOF
WHITE-DEMY COVERED

In Accordance with N.H.S. Requirements

Size : 1, 2, 3, 4, 5,
8 oz. 10 oz. 12 oz. 16 oz. 72 oz.

A Superior indispensable pack for the dispensing counter

COMPETITIVE PRICES

Sole Concessionaires,

LOVELUCK EDWARDS & CO.
432/440 GARRATT LANE
S.W.18

CARBOY STAND AND TILTER

For drawing off small quantities of Acids from Carboys.

The Carboy can be tipped to any position with one hand.

LEIGH & SONS METAL WORKS
Orlando St., BOLTON

AMPOULES

Ampouled Injections and Powder Ampoules in large small quantities. Specialist production under exp ienced Chemical and Medical supervision.

MARKWELL, EDWARDS & CO. LTD.
589 HIGH ROAD, LONDON, N.12. Hillside 58
Telegrams : Ampuls, Norfuch, London

BIRTH CONTROL TODA

Practical help for married women by the great pio

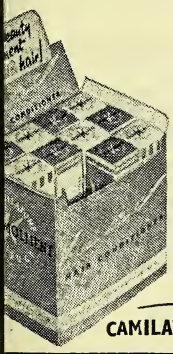
Dr. Marie C. Stopes
Founder of Birth Control Clinics
Sure sale if displayed on chemists counters

Retail **6/-** 33⅓% off to trade plus 5% for orders of 100

Alex. Moring, Publishers, 2a Cork St., Bond St., London

This poster means PROFITS!

ARE *you* stocking Kreemollient yet? Millions of people —literally millions—are reading about Camilatone's amazing hair conditioning cream in the National Press and they're all on the look-out for these neat, attractive window bills! Put one in *your* window right away—they're the final step towards some *real* selling and they're sent free with every delivery of Kreemollient. Don't be left out of this great new sales drive. Send that order—now!



Kreemollient is packed in very smart tubes and cartons to retail at 1/5½d. inc. tax. Trade price: 7/- per dozen tubes (plus 100% tax) packed in an attractive counter display that practically sells the goods for you!

Kreemollient

CAMILATONE LIMITED · EDGWARE ROAD · WELSH HARP · LONDON, N.W.9

As the Shadows Lengthen...

. . . and the chilly days of Autumn approach, the common cold comes out to play with renewed vigour—thanks to Serocalcin its playtime of infection is only short lived. At this time many thousands are starting their prophylactic course. Meet the increased demand by ordering Serocalcin now. Packed in 20's and 60's.

FOR THE PREVENTION & TREATMENT OF COLDS

SEROCALCIN

Pharmacists are reminded that the sole selling agents for Serocalcin in the U.K. are J. C. Eno Ltd., Watford, Herts (Watford 7761), to whom all orders and enquiries should be sent.

HARWOODS LABORATORIES LTD · WATFORD · HERTS

Printed by The Haycock Press, Ltd., 106-140 Neate Street, Camberwell, S.E.5, and Published by the Proprietors Morgan Brothers (Publishers), Limited, at 28 Essex Street, Strand, London, W.C.2.

SEPTEMBER 10, 1949

Chemist & Druggist SUPPLEMENT

HEAD OFFICE: 28 ESSEX STREET, STRAND, LONDON, W.C.2

lephone : Central 6565 (10 lines) *Telegrams : "Chemicus, Estrand, London"*

Classified Advertisements must be prepaid. **For rates see sectional headings**

ORRIDGE & CO. (Established 1846)

r SALES, PURCHASES, VALUATIONS, STOCKTAKING *and* ASSESSMENTS

Antrim. Recently established business. ver at present about £70 per week, net about £15 per week. Stock estimated at 0, fittings, £400. Scope for optics and ltural trade. Price £3,000 all in or valua- erms.

South Africa. Cape Province. Genuine busi- for immediate disposal. Increasing turn- present rate over £500 a month. Beauti- fitted pharmacy. Fixtures and fittings cost 0. Entire English community, with excel- educational facilities. Price required £1,500 Further details upon application.

Tasmania. Business for sale owing to ill- . No opposition. Turnover this year 0. Rent 30/- per week, no rates. Near city. Total purchase price about £1,350 rly sale.

Tasmania. General retail and dispensing ss, Kodak Agency. Turnover last year 0, net profit £1,100. Rent only 15/- per including rates. Modern pharmacy. Total ase price would be about £2,150.

5. London. Wholesale sundries and distributing business for sale owing to death of proprietor. Turnover last year £50,000. Connections London and Home Counties. Please write for details.

6. Surgical instrument business in Central London, also dealing in ligatures and dressings. Very old-established house. Turnover under management last year £17,000. Stock and plant valued at £5,250. Spacious factory with lease valued at £1,500. Share capital issued £6,446. Vendors, finding themselves unable to give the business personal attention, will accept £1 per share, which represents no sum whatsoever for goodwill. This is an excellent opportunity.

7. London. A 70 per cent. holding with complete administrative control is offered in a toilet and perfumery manufacturing business. Turnover about £7,000. Would suit young, energetic man with some sales experience. Vendor retaining a small interest. Ill-health cause of sale. Price £5,000, for most part covered by stocks and plant.

184 STRAND • LONDON • W.C.2

ephone : TEMPLE BAR 9212/3—6340 Telegrams : Orridgchem Estrand, London

Branch Offices : 36 Cannon St., Birmingham, 2. Phone : Midland 6547
77 High St., Shirley, Southampton. Phone : Southampton 71708

BUSINESSES WANTED

s 8/6 (minimum) then 3d. per word. Box 2/-

E PHARMACIST desires to purchase busi- Southern England or West Country, with fit £800-£1,000 or more per annum. Living odation and garden, if possible. Capital e. Details in strictest confidence to Box

D. well-established shop (druggist) in busy or would consider partnership. Box 6/700.

nown Manufacturing House with exten- Sales Organisation invites enquiries from etary manufacturers requiring further pment.

esses manufacturing proprietary or ed specialities from raw material are of ular interest.

Board are prepared to purchase suitable esses outright or will consider the acquisi- f a controlling interest.

ate capital is available, and the strictest ence will be observed towards applications. preliminary details in the first instance x A/373.

BUSINESSES FOR DISPOSAL

36 words 8/6 (minimum) then 3d. per word. Box 2/-

ABSOLUTELY UNOPPOSED drug store, well stocked and fitted, suitable conversion to pharmacy. Main thoroughfare S.E. London suburb. Two doctors local. Recently opened. Taking £40, rising weekly. Owner going abroad. Inclusive £2,000. Would consider selling freehold property with business. Phone Gip 2450.

ESTABLISHED DRUGGISTS, £50/£60 weekly, N. London. Good prospects M.P.S. Rent £100; also 32 years' lease; disposable stock and fixtures at valuation. Write, H., 25 Burleigh Mans., W.C.2.

FLOURISHING, good-class coastal business in S.E. Turnover approaching £9,000. N.H.S. prescriptions average 900 monthly and increasing. Attractive, well-stocked and furnished shop. Exclusive agencies and large photographic connection. Owner retiring. Very long lease or option to purchase. Accommodation over shop not at present free. Price, including stock and valuable fixtures at valuation, approx. £10,000. To assist private purchaser, vendor would accept substantial deposit, balance to be paid over a 10-year period at nominal interest. Principals only and banker's reference please, to Box 6/706.

The Bridge
Walsall, nr. Birmingham
Phone : Walsall 5748
28 Rigby Buildings, 4 Aytoun St.
Manchester 1
Phone : Central 0877
141 Bath St., Glasgow
Phone : Douglas 3168

ERNEST J. GEORGE & CO.
Chemists' Transfer Agents, Stocktakers and Valuers
329 HIGH HOLBORN LONDON, W.C.1
Phone : Hol. 7406/7 and 2397

South Coast Representativ
G. Loxton Grinstead, M.
"Edweina," Oaklands Av
Saltdean, nr. Brighton, Su
Phone: Rottingdean 8233

BUSINESSES FOR DISPOSAL

A.1. Putney Area. Drug Store offered for conversion to pharmacy. Turnover for last financial year, £3,566. Premises occupy prominent corner position beneath modern block of flats. Price £850, plus stock at valuation (estimated at £800-£1,000). A reasonable offer *may* be considered.

A.2. London, N.W. (Retirement). Family and dispensing business with freehold property. Turnover for last financial year, £6,350. Living accommodation available. In present hands for over 25 years. Price of business, £4,250, including heavy stock and valuable fixtures; property (upon which a substantial mortgage could no doubt be arranged). £3,500/£4,000.

A.3. Hammersmith (near). Old-established business with profitable supplementary turnover. At present under management. Turnover for last financial year, £6,552. For the six months ended March 31, 1949, the aggregate returns were approx. £3,850. Reasonable rental, good lease. No near opposition. Goodwill, £1,500/£2,000, plus value of stock and fixtures.

A.4. London, S.E.17. Working-class business v extensive N.H.S. connection. Present turnc approx. £400 per month. Good scope. Low r Price £2,400, including stock and fixtures e mated at £1,200.

A.5. Essex Town. Well-established business v remunerative sub-Post Office. Net profit for rent financial year should exceed £2,500. V large N.H.S. connection. Good living acc modation including 4 bedrooms, bathroom, e rent £156. Total price approximately £5,000, which £1,000/£1,500 can, if necessary, be p over an agreed period. This is an. excepti ally high profit-earning business, and sho prove a first-class capital investment.

A.6. Finchley Area. Family suburban busin turnover for 1948-49, £4,130; previous months, £5,763. Lock-up shop, etc. Rent, £ Total price about £3,120, but reasonable o considered as quick sale desired.

OFFICIAL VALUERS TO THE N.P.U. BUSINESS PURCHASE FUND

Businesses for Disposal—Continued

GLASGOW. Chemist's business and premises for sale, old-established, in residential area, modern parade of shops, main road. Capable of immediate expansion. Box 6/619.

HOVE, SUSSEX.—Old-established retail chemists, main thoroughfare, turnover approximately £15,000 (3 years' average), accountant's figures. Lease 21 years, rent £425. Price £10,000 as going concern. Principals only. Apply Box 64, Entrepreneurs, Ltd., 8 Breams Buildings, E.C.4.

MANUFACTURERS OF PERFUMERY and toilet preparations. Established 14 years. Well-known trade marks, valuable connections home and export. Excellent popular range. For sale without premises owing to expiration of factory lease. Splendid opportunity for substantial concern to increase business by acquiring additional profitable lines, introduced prior to price-control regulations. Goodwill £3,000, up-to-date plant and fittings £1,500, useful stock about £2,000. Principals only. Box 6/663.

MANUFACTURING CHEMISTS: Toilet, perfumery and pharmaceutical; 1948 turnover, £13,000; excellent connections; goodwill, plant and fittings, £1,000; stock at valuation (about £1,000). Morgan, 19 St. Martins St., W.C.2. (Whi. 8396).

SHEFFIELD. Old-established family and dispensing business in residential district. Leasehold property at low rental. Turnover exceeding £6,000 per annum. Private and N.H.S. dispensing increasing rapidly. Room for optical practice. Price, mahogany fittings, £900. Goodwill, £3,000. Stock at valuation. Box 6/695.

APPOINTMENTS

2/6 per line (12 lines = 1"). Box 2/-

HILL END HOSPITAL & CLINIC, ST. ALBANS, HERTS

DISPENSER (locum tenens), male or fem wanted immediately. Salary 7 guineas week. Apply, stating full particulars of exp ence to Medical Superintendent, Hill Hospital & Clinic, St. Albans, Herts.

SHEFFIELD No. 2 HOSPITAL MANAGEMENT COMMITTEE

CENTRAL PHARMACEUTICAL DEPARTMENT
APPOINTMENT OF DISPENSING ASSISTANT

Applications are invited from suitably qu fied persons for the position of Dispensi Assistant. Salary within scale according to perience, £270-£320. The National Hea Service Superannuation Regulations apply.

Applications, stating age and experience a accompanied by the names and addresses two persons to whom reference may be ma should be forwarded forthwith to the Sec tary, Sheffield No. 2 Hospital Manageme Committee, Middlewood Hospital, Sheffield,

R. BRADLEY,
31st August, 1949. Secretar

ST. GEORGE'S HOSPITAL, S.W.1.

ASSISTANT to work in manufacturing labor tory of pharmaceutical department for prepar tion of ointments and stock mixtures, et Unqualified. Wage according to age and e perience. Apply to Chief Pharmacist.

BERDOE & FISH
Chemists' Transfer Agents and Valuers
RGYLE SQUARE, KING'S CROSS, W.C.1
site St. Pancras and King's Cross Stations)

ted for private Client a good class
ness in London, N.W. or W. for pref-
ce. Turnover £5,000 upwards. L.A. im-
erial. Cash available £8,000. Strict
acy assured. No sale, no charge.

Valuations and Stocktakings, carried out under
nal supervision of principals
lished 1870 Phone : TERminus 3574

Appointments—Continued

CONNAUGHT HOSPITAL, WALTHAMSTOW, E.17

STANT TO PHARMACIST required im-
ately (Hall certificate). Hospital experi-
preferred. Salary in accordance with
C. scale. Applications, stating age, ex-
nce, etc., together with copies of two re-
testimonials, to the Secretary, Forest
11) Group Hospital Management Com-
ee, Langthorne Rd., Leytonstone, E.11.

UNDERLAND AREA HOSPITAL MANAGEMENT COMMITTEE

ications are invited for the following
:—
ASSISTANT PHARMACIST at the
AL INFIRMARY AND CHILDREN'S
PITAL. Salary in accordance with J.N.C.
. Previous hospital experience will be con-
ed in determining salary according to

ASSISTANT DISPENSER at the RYHOPE
ERAL HOSPITAL. Applicants must hold
Apothecary Hall certificate. Salary in ac-
nce with J.N.C. Scale, viz.: commencing
per annum, rising in 9 years to a maxi-
of £350 per annum.
these appointments are subject to the
onal Health Service (Superannuation) Re-
ions.
ications, stating age and experience, to-
er with the names of two referees to be
to F. Dagnall, Secretary, Sunderland Area
pital Management Committee, Royal In-
ary, Sunderland.

WEST MIDDLESEX HOSPITAL, ISLEWORTH, MIDDLESEX
(South-West Middlesex Hospital Management Committee)

DEPUTY CHIEF PHARMACIST
pplications are invited for the above post.
didates should preferably hold the quali-
ion of Pharmaceutical Chemist. Salary,
x £20—£525, plus an additional incre-
t of £15 to £540 if specially recommen-
The appointment will be subject to medi-
examination and the provisions of the
onal Health Service (Superannuation)
ulations, 1947. Applications, stating age,
ifications, present employment and pre-
s experience, together with testimonials
the names of three referees, should be
e in the applicant's own handwriting to
Chief Pharmacist at the above hospital.

WEST LONDON HOSPITAL, HAMMERSMITH, W.6.

Applications are invited for the appointment of assistant pharmacist (male). Salary in accordance with the J.N.C. Scale. Applications, with usual particulars, to the Chief Pharmacist.

WEST MIDDLESEX HOSPITAL, ISLEWORTH, MIDDLESEX
(SOUTH-WEST MIDDLESEX HOSPITAL MANAGEMENT COMMITTEE)

Applications are invited for the post of ASSISTANT PHARMACIST. Salary in accordance with the J.N.C. scale, £370-£450 per annum. Commencing salary will depend on previous experience. Appointment to commence 1st October, 1949. Subject to the National Health Service Superannuation Scheme. Applications, stating age, qualifications and experience, with copies of testimonials, to be sent to the Chief Pharmacist at the above Hospital.

LONDON HOSPITAL, WHITECHAPEL, E.1.

Applications are invited for the position of ASSISTANT PHARMACIST at the above hospital. Salary according to J.N.C. (Hospital Staffs) scale. Experience will be taken into consideration in determining commencing salary. Hours: 9 a.m. to 5 p.m. (on half-day, 9 a.m. to 1 p.m.). Occasional Sunday duty and late duty, both subject to additional remuneration. Dining room facilities. Applications to Secretary.

PORTSMOUTH MUNICIPAL COLLEGE

Principal—Leonard B. Benny, M.A. (Cantab.)
Department of Pharmacy and Physiology
APPOINTMENT OF HEAD OF DEPARTMENT

Applications are invited from suitably qualified persons for the post of head of this department. It is desirable that applicants should be qualified to teach one or more of the subjects Physiology, Pharmacology and Bacteriology.

Salary according to Grade II of the current Burnham Technical Scale (£800 x £25-£950) plus allowances recognised under that scale.

Forms of application may be obtained from the Registrar at the College.

E. G. BARNARD, M.A.,
August 31, 1949. Chief Education Officer.

THE ROYAL LONDON HOMŒOPATHIC HOSPITAL,
GREAT ORMOND STREET, W.C.1.
DISPENSER

Lady (unqualified) required with good experience. Salary in accordance with Joint Negotiating Committee scale. Apply, stating age and full particulars to Pharmacist.

CLAYTON HOSPITAL, WAKEFIELD

FIRST ASSISTANT PHARMACIST required. Non-resident post, salary in accordance with the recommendations of the Joint Negotiating Committee, i.e., £415 x £15—£490 per annum.

Applications, stating age, qualifications and experience, with copies of three recent testimonials, should be sent to the undersigned.

W. READ, Secretary.

Appointments—Continued

ST. LUKE'S HOSPITAL, BRADFORD

ASSISTANT DISPENSER required. Salary in accordance with J.N.C. scale. Candidates should hold the Apothecaries' Hall Certificate. Applications, giving particulars of age, education, training and experience, should be forwarded to the undersigned.

H. TRUSSON, Secretary.
Bradford "A" Group H.M.C.

THE UNIVERSITY OF MANCHESTER

Applications are invited for the following posts:—Assistant Lecturer in Pharmacy; Demonstrator in Pharmacy. Salary Assistant Lecturer, £450 x £25—£500 per annum. Salary Demonstrator, £400 to £500 per annum according to qualifications and experience. Applicants should possess a University degree and/or the Ph.C. qualification. The posts offer opportunities for prosecuting research leading to the M.Sc. or Ph.D. degrees. Applications should be sent as soon as possible to the Registrar, the University, Manchester, 13, from whom further particulars and forms of application may be obtained.

Vacancies advertised are restricted to persons or employments excepted from the provisions of the Control of Engagements Order, 1947

SITUATIONS OPEN

36 words 8/6 (minimum) then 3d. per word. Box 2/-

RETAIL (HOME)

ALDINGTON & LEWIS, LTD., 168 High Rd., East Finchley, London, N.2 (Tudor 7786) require the services of an unqualified assistant with dispensing experience. The position is a progressive one and the remuneration will include participation in profits by way of bonus; living accommodation is not available. Please apply initially by letter, stating brief particulars of experience, etc.

ASSISTANT, male or female, required for high-class dispensing business in Kensington High St., London, W.8. Good salary; no Sunday or rota duty. Applicant must be good dispenser. Apply to Mr. Ball, 151 Westbourne Terr., London, W.2. Pad. 6666.

ASSISTANT REQUIRED for old-established dispensing business. No duties. Apply, giving full particulars first letter, to T. D. Evans, Treforis, Bronshill Rd., Torquay.

BOOTS THE CHEMISTS have vacancies in a number of districts for qualified assistants, male and female. Salary (male) Central London £10 5s. to £11 5s. Metropolitan District £9 17s. 6d. to £10 17s. 6d. Provinces £9 10s. to £10 10s. (Female Central London £9 15s. to £10 15s. Metropolitan District £9 7s. 6d. to £10 7s. 6d. Provinces £9 to £10, according to age. Engagements are on a permanent basis with good prospects and eligibility for pension, life assurance, etc. There are also a number of vacancies for unqualified assistants with sound pharmaceutical experience. Good remuneration with a view to permanency. Pension scheme, etc. Applications should be made to Retail Staff Department, Station St., Nottingham, stating age, experience, and district preferred.

CAPABLE QUALIFIED MANAGER, view to partnership, required for pharmacy in large village near East Coast. Good living accommodation, four bedrooms, two living rooms, etc. Please give full particulars, stating age and salary required. Box 6/616.

CHEMIST, QUALIFIED, wanted as branch ma for busy dispensing branch in Glasgow d Permanent situation to suitable applicant. commencing salary with superannuation sche operation. Apply in writing, giving details o experience and when free, to The Technical S visor, S.C.W.S., Ltd., Retail Drug Dept. Bogmoor Rd., Shieldhall, Glasgow.

CHOICE OF SUITABLE accommodation, i quired, on appointment. Qualified persons, and female, are required to manage attr pharmacies in south-east and south-west di of London. Positions are available offering from £550 to £650 per annum, plus generous mission. Engagements are permanent and pr sive and include entry into superannuation sc Apply, giving full particulars to the Staff Ma Royal Arsenal Co-operative Chemists, Ltd., Powis St.. Woolwich, S.E.18.

COMPETENT UNQUALIFIED ASSISTANT. C nial situation. State salary, experience, to Ave Bury New Rd., Prestwich, Lancs.

CROYDON. Unqualified junior assistant req mainly for dispensing in busy pharmacy. Exc working conditions. Apply, with particula experience, and salary required, to O. L. Ca ton, 300 London Rd., Croydon.

CROYDON AREA. Qualified assistant, full- or time, required for permanent position. Box 6

DEREK CLARKE, Edgware. Experienced, un fied assistant. Essentially dispensing (lady or tleman). Full time, approximately 42 hours week. Shift work two late nights per week, One Sunday in four, rota duty. Salary acco to experience. Derek B. Clarke, 85 Station Edgware, Middlesex. Edgware 2061.

DISPENSING and counter assistant, good exper essential. Central London. Apply Box A/3

EDGWARE. Pharmacist required. Essentially pensing (lady or gentleman). Full time, app mately 42 hours per week. Shift work two nights per week; 3-10. One Sunday in four duty. Salary according to experience. Derek Clarke, 85 Station Rd., Edgware, Middlesex. ware 2061.

EXPERIENCED female wanted for quick cash t in toilet goods, chemists' sundries and fancy g (not a chemist) for Ilford. 5½-day week. age, experience, etc., to Box 6/620.

HEPPELLS (1932), LTD., require qualified man for West End pharmacy. Permanent position o ing scope for initiative. Good salary and c missions. Pensions scheme available. Apply full details: Superintendent Chemist, Hep (1932), Ltd., 70 Vauxhall Bridge Rd., S.W.

JUNIOR ASSISTANT required for old-establis business. Counter and dispensing. Highest re ences essential. Applicants please give details experience, age, etc., and when free for intervi to W. J. Boyes, 61 Balham Hill, S.W.12. T Hill 1738.

L. ROWLAND & CO., LTD., of Wrexham, hav vacancy for an assistant manager and invite ap cations from qualified gentlemen who are desir of obtaining a permanent appointment offer wide experience in all branches of pharmacy. P session of a furnished house will be given if quired. Please reply, giving details of experien and stating remuneration requested, to the S retary, Mitre Buildings, Brook Street, Wrexha

LIVERPOOL. Qualified male pharmacist, disp ing and counter duties. Busy city pharma Good hours, no Saturday afternoon or Sun duty. Copy references, experience and salary quired in first instance to James A. Duffy, countant, 31 Dale St., Liverpool.

Situations Open—Continued

AND MOORLANDS Co-operative Society, Pharmacy and Optical Department. Wanted, qualified pharmacist-optician as departmental er and buyer. Modern shop. Good house le. N.U.C.O. scale. Annual sales £14,000. nnuation transfer scheme. Apply in writing, full details to Managing Secretary, Leek & nds Co-operative Society, Ltd., Russell St., Staffs.

ON CO-OPERATIVE CHEMISTS, LTD., invite tions from experienced pharmacists for managerial vacancies in pleasant suburban Modern, well-equipped shops with good ing staffs, attractive salary, generous com- , with payment for all rota duties. Posi- ermanent and superannuated, with excellent ion prospects. Choice of living accommoda- ouse or flat, where required. Full particu- to experience, wages required, etc., to ntendent Chemist, Grange Rd., Leyton, E.10.

Y INDUSTRIAL Co-operative Society, Ltd. cist manager of branch required. Three ts kept. Modern house available, newly ed, in a good residential district, within ach of the shop. Apply with full particu- cluding salary desired and previous ex- e to the Secretary and General Manager, Industrial Co-operative Society, Ltd., Street, Morley, Leeds.

ACIST. Manager for pharmacy with know- f Polish and Polish pharmacopœia required stminster area, October. Salary and com- . Send particulars in confidence. to Box

HARRIS, LTD., Edmund Street, Birming- equire the services of a qualified pharmacist r dispensing department. The position is ent and offers excellent opportunity for ad- ent. Close 12.30 Saturday. Apply, in first instance, stating salary required.

IED ASSISTANT PHARMACIST required for pharmacy, male or female. Apply, stating d wage required, and giving particulars rience to the Secretary, Stockport I. & E. rative Society, Ltd., 27-39 Chestergate, rt.

IED ASSISTANT PHARMACIST required for ly situated pharmacy. Coast resort. Appli- to Managing Secretary, Great Grimsby Co- e Society, Ltd., 74 Garibaldi St., Grimsby.

IED PHARMACIST required as manager for n business. Reply, stating salary required, A. Cheshire, Ltd., Charlton Pharmacy, n Kings, Cheltenham.

YORKSHIRE. Superintendent pharmacist required for old-established business. Ex- terms offered to suitable applicant desiring ency, with prospects of partnership after period. Accommodation available if neces- Give details of age, experience and time for interview. Box 6/613.

DGES, LTD., require the services of a quali- le pharmacist, preferably under 45 years of which case the post is pensionable. Good ts for a man of energy and initiative. Salary o £650 per annum. Call, or write to the Manager, 400 Oxford St., W.1, giving par- of experience, etc.

NTENDENT CHEMIST, male or female, re- to open new department. Splendid oppor- Apply, stating age, qualifications, experi- nd salary required, to Managing Secretary, gin Dist. I. & P. Soc., Ltd., Front St., gin-by-the-Sea.

SENIOR ASSISTANT, active, for busy cash counter and dispensing. Progressive permanent post for interested worker. Good salary. Usual hours, no extras. Darleys, Chemists and Opticians, 70 Ripple Rd., Barking, Essex.

WE HAVE several interesting and well-paid vacancies for unqualified staff in the London areas of Ilford, Greenford, Battersea and Edgware. Application in first instance to Superintendent Chemist, London Co-operative Chemists, Ltd., Grange Rd., Leyton, E.10.

WEST BROMWICH. Experienced assistant required for counter and dispensing, male or female. Good wages and conditions. State experience, and salary required, to Smith, 115 Moor St., West Bromwich.

LOCUMS WANTED

LOCUM REQUIRED for dispensing. Two weeks from Sept. 18 or Sept. 25. Apply to T. D. Evans, Treforis, Bronshill Rd., Torquay.

QUALIFIED LOCUM required on October 3 for three weeks. Adequate assistance. No Sunday or half-day duty. Please state terms. Huggins & Gee, Ltd., 3 High St., Wainfleet, Skegness, Lincs.

WHOLESALE

A REPRESENTATIVE with own car and established connection in Hampshire and South-West England required by old-established manufacturer of toilet and household brushware. Salary, commission, expenses. Write, full details, Titterton & Howard, Ltd., 24 Old Bond St., London, W.1.

A YOUNG progressive company operating in a highly specialised field of medical specialities, and with international associates, is extending its operation. An opportunity occurs for a young chemist to enter the production end of the business as assistant works chemist with full control of manufacturing under the production manager. The company's factory is located in Buckinghamshire and the successful candidate would be required to live in the vicinity. Applications with fullest personal details, qualifications, experience, and salary status, should be addressed in the first instance to production manager, Box 6/610.

AGENTS WANTED to take orders on commission basis for nationally advertised cosmetics of unique appeal. Exclusive territories and excellent sales aid to right men, who must be well introduced to best chemists. Greater London area still open. Apply Box W.73, Marshall Hardy, Ltd., 211 Piccadilly, W.1.

AMBITIOUS REPRESENTATIVES wanted in all areas with first-class connections among chemists, stores, etc., to sell new attractive high-class, quick-selling product (popular price) by London manufacturers. Only those with proved sales record considered. Salary and good commission. Full details to Box A/370.

APPLICATIONS INVITED for three appointments to complete team of progressive firm manufacturing superior quality medicated confectionery and proprietaries in constantly increasing demand. Territories: 1, S.E. and S.W. London and Surrey; 2, Kent, Sussex; 3, Northern Ireland. Applicants must be very experienced with strong connections having previously represented reputable house. Positions are permanent and offer real prospects for progressive earnings. Applications will be considered from top-class men operating for one other house only. If you wish to join us send fullest particulars including age, territory and experience. Box 6/615.

Situations Open—Continued

ASST. CHEMIST required for factory control and technical investigations, E.C.1 area, in important industry. Interesting work. Salary according to qualifications. Write, giving particulars education, training and experience, to Box 2210, Frost-Smith Advg., 64 Finsbury Pavement, E.C.2.

ASSISTANT REQUIRED to sales manager of small manufacturers/exporters. Professional background and experience in advertising ethical pharmaceutical, dental, or veterinary products essential. Box A/371.

CHEMICAL MANUFACTURERS, North-West Coast; development chemist. A young pharmacist (preferably with one or two years' experience in cosmetic or allied industry), is required by chemical manufacturers on N.W. Coast, for development work in connection with evaluation and use of wide range of modern organic chemicals, for use in pharmaceuticals, cosmetics and foodstuffs. Good opportunity for suitable applicant with initiative. Apply with full particulars, to Box 6/651.

EXPERIENCED MAN to take charge of small scale manufacturing laboratory. Excellent position with good prospects and superannuation scheme. Apply P. Jeyes & Co., The Drapery, Northampton.

GALA OF LONDON, the international cosmetic manufacturers, are extending their activities, and invite applications from representatives in S. Wales, the Home Counties and the North of England. Experience in cosmetic trade not essential, but preferably car-owners, 25-35 years of age, of good education, and willing to work hard to achieve personal ambition within Company's expansion plans. Remuneration by salary, commission and expenses. Reply in confidence to General Sales Manager, Gala of London Ltd., Hook Rise, Surbiton, Surrey.

GLASSBLOWER. Experienced in small scientific and inhalation work. Good prospects. Write, stating age and experience, to Box A/353.

LABORATORY ASSISTANT required for small scale manufacturing. Experience more valuable than academic qualifications. Permanent position with superannuation scheme. Apply P. Jeyes & Co., Ltd., The Drapery, Northampton.

LABORATORY ASST. required in laboratory engaged in factory control and technical investigations in important industry, E.C.1 area. Interesting work. Time allowed for study. Salary according to age and qualifications. Write, giving particulars, education, training, experience, to Box 2216, Frost-Smith Advg. 64 Finsbury Pavement, E.C.2.

LADY with experience to look after sundry section of chemists' warehouse. Central London. Saturday 1 p.m. A/376.

LEADING COSMETIC manufacturers wish to appoint 2 new salesmen in (a) Midland area, (b) North of England. Applications invited from salesmen, preferably car owners, not necessarily with cosmetic experience, but ambitious, aggressive and anxious to progress. Applications in confidence to Box CD. 239, L.P.E., 110 St. Martin's Lane, W.C.2.

LEADING PERFUMERY and cosmetic house have a vacancy for a qualified chemist accustomed to supervision of factory staff and output. Replies in first instance should specify qualifications, age, experience and when disengaged. All correspondence will be treated as strictly confidential. Reply to H.E.C., R. J. Reuter Co., Ltd., "4711" Factory, Slough, Bucks.

MANAGER REQUIRED for progressive export/import merchants. Knowledge of industrial chemicals essential and buying experience desirable. Initiative encouraged. Send details in strict confidence. Box 6/614.

MAN, aged 25 to 30, to be trained as fa foreman by firm manufacturing disinfectants domestic cleaners in Barking. Education p ably matriculation and Inter B.Sc. stan Knowledge of bottling and packing desirable not essential. Must be capable of controlling and female labour. Progressive post to man intelligence and drive. Apply, with details of experience and salary required, to Box 6/60

MANCHESTER. First-class representative req by well-known toilet manufacturers for Manc and district, age about 30. Own car and ch connection essential. Salary, car allowance, exp and commission. Reply with full details copy of references to Sales Manager, "Bandb Ashe Laboratories, Ltd., 120 Victoria St., S.V

MANUFACTURERS of nationally distributed su and fluorescent lamps require representative London, Bristol, Birmingham areas. Applica are invited from successful salesmen with co tions in electrical and/or chemist trades wh used to selling speciality lines. Salary and con sion. Write, with full details, to Sales Man Box A/369.

OLD-ESTABLISHED toilet brush manufacture quires travellers for various parts of England Wales. Must be keen and active and have a connection amongst chemists, hairdressers, operative Societies, etc., and possess good re of sales. Salary, commission and expenses. cellent prospects and permanency. State ground covered, turnover, any references, c only, and other particulars to Box 6/618.

PATONS & BALDWINS, LTD., Worsted and len yarn manufacturers, of Alloa, Scotland and where in the United Kingdom and overseas, i applications for the post of research chemist t company. Research work into the finishing, d and processing of wool and other fibres wi supervised from the company's branch at A Applicants, who should preferably have had ex ence in the textile industry, should apply in wri giving information as to experience and st salary required, to The Chairman, Paton & B wins, Ltd., Alloa, Scotland.

REPRESENTATIVE required with established nection hospitals, doctors, etc., for the sal hospital furniture and instruments. Districts don, Home Counties, North England and W Salary and commission. Edwards Surgical plies, Ltd., 83 Mortimer St., London W.1.

REPRESENTATIVE required calling on doctors chemists in Essex and Sussex and doctors, hosp and veterinary surgeons in North and North London, Middlesex, Hertfordshire, Buckingh shire and Essex, for wholesale manufactu house. Reply giving full details, experience, to Box A/7.

REPRESENTATIVES required by ethical pharma tical house for three areas, Lancs, South Wales West Country. Must be thoroughly experience calling on medical profession and have establi connection with chemists. Salary, expenses commission. Only first-class men should ap with full details of age, experience and salary quired, to Box A/332.

REPRESENTATIVES wanted in certain areas; commission terms. Apply Beaucaire Laborato Vauxhall Grove, London, S.W.8. Telepho Reliance 3796.

REPRESENTATIVES calling on chemist-optici required in all parts of the British Isles ex Scotland and North-East England. Write, gi details of territory covered and whether car ow to Judge Optical Co., Market Sq., Holyh Anglesey.

Situations Open—Continued

SENTATIVES, calling on chemists, required orth of England to sell, as additional line, proprietary medicine of exceptional effici- supported by National and Provincial Adver- Generous commission and great possibilities. /678.

SENTATIVES REQUIRED in all territories ex- .W., S.E. England and Lancs. For Nation- dvertised toilet preparations. Forward full sales career, area covered and terms, to /681.

REPRESENTATIVE for all veterinary pro- to qualified profession in Devon, Cornwall est Counties. Good salary with expenses and ssion. Excellent prospects for man with ini- Car provided. Apply Box A/356.

BRITISH DRUG HOUSES, LTD., have the ng vacancies in their physiological depart- —(a) Graduate with qualifications in phar- gy, physiology or biochemistry, for biological work, with opportunities for research. Post- te experience in pharmacology or physiology medical qualifications an advantage, but not l. Salary according to qualifications and ex- e. (b) Laboratory technician, age over 18, atriculation or higher school certificate. Facili- r continuing scientific education. Salary ng to scale. Please apply in writing to the el Manager, Ref.: RMA/SWFU, The Brit- ug Houses, Ltd., Graham St., City Rd., , N.1.

LLER calling on chemists wanted to carry ing bottles and sundries on commission basis. and Home Counties. Box 6/694.

S CHEMIST required by a North-West firm nufacturing chemists. The position offers or a man of sound judgment. Apply, giving rticulars in confidence, to Managing Direc- 6/682.

G REPRESENTATIVE wanted by small whole- emists' sundriesmen (Est. 30 years) for the ondon and Essex area. Salary, commission, s basis. Many accounts handed over. Apply ., 196 Whittington Rd., Wood Green, N.21.

SITUATIONS WANTED

ds 3/- (minimum) then 1d. per word. Box 1/-

RETAIL (HOME)

EMAN (41), unqualified, 25 years counter, raphic, dispensing, including locum and ng, desires position, South Midlands. Box

experienced dispenser, requires congenial ent post shortly. London or Thames area ed. Box 6/611.

fully experienced ex proprietor pharma- , married, now holder of several proprie- reign agencies, seeks arrangement. Will pro- upervising cover as required and give full ce at busy times in return for good living odation and small office from which busi- ould be conducted. Wife able to help in required. London neighbourhood or Sou- Counties preferred. Box 6/702.

ALIFIED YOUNG LADY dispenser, four retail and dispensing experience (mainly), desires similar position in coastal town ference. Box 6/612.

PORTANT—

x Office numbers are intended exclusively for ecific answers to particular advertisements d Price Lists, Trade Circulars, Samples and nted Matter cannot be forwarded.

WHOLESALE

EXPERIENCED REPRESENTATIVE with many years' experience and established connection with wholesale and retail chemists, wholesale factors, co-operative societies and stores desires appointment with leading proprietary or perfumery house, Lancs, Yorks, Lincs, Notts, and Northern Counties. Excellent references; several years present firm. Box 6/696.

REPRESENTATIVE, resident E. Kent, covering Southern Counties, fully experienced drugs, toilets, sundries, chemists, Co-op. stores, etc., requires post with well-known house. Live connection. Salary, commission and expenses basis only considered. Please send full details, Box 6/621.

SALESMAN, 27, keen and experienced, wishes to contact reputable firm requiring first-class representation in South-West England. Salary, commission and expenses. Write, Crawley, "Westbury," Rhind St., Bodmin, Cornwall.

AGENCIES

36 words 17/6 (minimum) then 4d. per word. Box 2/-

AGENT required for the Midlands by manufacturers of C.F. advertised proprietary line. Numerous accounts already opened, which will be handed over. Agent must be well established and have knowledge of pharmacy. Box 6/701.

AGENTS with first-class connections with chemists, required to handle a popular six and eight exposure roll film. Attractive discounts and commission. The Panda Film Co. (Wholesale), Ltd., 12 Laings Corner, Mitcham, Surrey.

AGENCIES WANTED

36 words 8/6 (minimum) then 3d. per word. Box 2/-

LONDON AGENCIES in specialities required. Could store; good connection. Write, 25 Burleigh Mans., W.C.2.

REPRESENTATIVE, well established with retail and wholesale chemists, willing to accept one or two additional agencies. Products must be of high repute and preferably advertised. This is a genuine opportunity for complete coverage of the district. Box 6/703.

WANTED

36 words 8/6 (minimum) then 3d. per word. Box 2/-

AUTOMATIC tube-filling equipment required. Arenco, Cowles or similar. Please send full details to Box A/366.

CLEARANCE LINES of cosmetic containers, powder boxes, etc., purchased for cash. Willow Pattern Perfumery, Ltd., 20 Gloucester St., Stroud, Glos.

REQUIRED, few tons naphthionic acid. State price, nature of packing, location and delivery. Box 6/705.

MISCELLANEOUS SALES

36 words 17/6 (minimum) then 4d. per word. Box 2/-

"ALITE" standard elevator and overhead distributor, size "E" with centre bottom outlet. With supporting framework and motor. In excellent condition, very little used; will accept reasonable offer. Also "Pascall" No. 0 blending and grinding mill. Seen London. Box 6/698.

ASPIRIN TABLETS, ex Government surplus stocks. About three million in bulk containers. Also other surplus stocks. Apply for offers to Box A/345.

BEST QUALITY. 1½ tons skin glue, ground. 2 tons bone glue in cakes, for disposal at very reasonable price. Samples and particulars supplied. Box 6/679.

BOTTLES. Small screw top. Mixed oval and rounds. Suitable tablets. 800,000. Offers any quantity. Quick disposal. Rotary Photographic Co., West Drayton 2601.

BOTTLES AND JARS for toilets with closures. All new as follows: 350 gross 100 c.c. toilet cyls. 200 gross 2 oz. pomade jars. 500 gross 2 dram perfumes. 50-100 gross 2 oz. amber jars. 250 gross 2 oz. talc. bottles. 200 gross 2 oz. arch sprinkler bottles. All above, nearly new and in perfect condition. Further details from Eleanor Nesfield, Hough Hall, Hough Hall Rd., Manchester, 10. or telephone Col. 2218.

FRENCH PERFUME BOTTLES, Chanel type with ground glass stoppers and elegant upright fancy boxes to fit. Sizes ½-oz., 1-oz. and 2-oz. Suitable for high-class perfumers packing own perfumes. Also fine quality bottles with decorative caps, each in attractive boxes, sizes 1-oz., 2-oz. and 4-oz., suitable for packing lavender or Cologne. Manufacturers' surplus to clear below cost. Box 6/699.

GLASSBLOWING, medical, scientific, and repetition by Hall Drysdale & Co., Ltd., 58 Commerce Rd., Wood Green, London, N.22. Phone: Bowes Park 7221.

NAT. CASH REGISTERS. Brass, £1 19s. 11½d., £55; Ankers, £45. Machines hired £10 p.a. Rebuilt Cash Tills, Ltd., 63/65 Rosebery Ave., E.C.1. Ter. 4735.

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